

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



FCC Applicant: Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari, Nagaokakyo-shi, Kyoto 617-8555 Japan

FCC Manufacturer: Murata Manufacturing Co., Ltd.
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ISED Applicant: Murata Manufacturing Co., Ltd.
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ISED Manufacturer: Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari, Nagaokakyo-shi, Kyoto 617-8555 Japan

Product Name: Communication Module

Brand Name: muRata

Model No.: LBEE5ZZ1XL, LBEE5ZZ2XS

Model Difference: Refer to section 1.8

Report Number: E2/2022/10038

FCC ID VPYLBEE5ZZ1XL

IC: 772C-LBEE5ZZ1XL

Date of EUT Received: January 11, 2022

Date of Test: January 19, 2022~ June 29, 2022

Issue Date: June 30, 2022

Approved By _____

Jay Lin

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247, ISED RSS-247.

The results of this report relate only to the sample identified in this report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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| Revision History | | | | | |
|------------------|----------|---------------------|---------------|------------|--------|
| Report Number | Revision | Description | Issue Date | Revised By | Remark |
| E2/2022/10038 | 00 | Original. | June 20, 2022 | Yami Kuo | * |
| E2/2022/10038 | 01 | Revised chapter 10. | June 30, 2022 | Yami Kuo | * |
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Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, please refer to section 1.8 of this report for details.
Test results of this report are applicable to the sample EUT(s) received and variant models are assessed as electrically identical, no further tests are required for the variant.

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1 GENERAL INFORMATION

1.1 Product Description

| | |
|------------------------------|--|
| Product Name: | Communication Module |
| Brand Name: | muRata |
| Model No.: | LBEE5ZZ1XL, LBEE5ZZ2XS |
| Model Differerce | Refer to section 1.8 |
| Hardware Version: | 1 |
| Firmware Version: | 17.80.200.204 |
| EUT Series No.: | 1XL: Sample. No2 |
| Power Supply: | 3.3Vdc, 1.8Vdc |
| Test Software (Name/Version) | Tera Term V4.105 / Dut labtool v2.0.0.85 |

1.2 RF Specification

WLAN 2.4GHz

| Wi-Fi | Frequency Range | Channels | Rated Power in dBm (Peak) | Modulation Technology |
|------------------|-----------------|---|---------------------------|-----------------------|
| 802.11b | 2412~2462 | 11 | 25.51 | DSSS |
| 802.11g | 2412~2462 | 11 | 27.64 | OFDM |
| 802.11n20 | 2412~2462 | 11 | 27.62 | OFDM |
| 802.11n40 | 2422~2452 | 7 | 27.28 | OFDM |
| 802.11ac20 | 2412~2462 | 11 | 27.51 | OFDM |
| 802.11ac40 | 2422~2452 | 7 | 27.16 | OFDM |
| 802.11ax20 | 2412~2462 | 11 | 27.56 | OFDMA |
| 802.11ax40 | 2422~2452 | 7 | 27.22 | OFDMA |
| Modulation type: | | CCK, DQPSK, DBPSK for DSSS | | |
| | | 256 QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM | | |
| | | 1024 QAM, 256 QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA | | |
| Data Rate: | | 802.11 b: 1/2/5.5/11 Mbps | | |
| | | 802.11 g: 6/9/12/18/24/36/48/54 Mbps | | |
| | | 802.11 n_20MHz: 6.5 - 144.4Mbps | | |
| | | 802.11 n_40MHz: 13.5 - 300Mbps | | |
| | | 802.11 ac_20MHz: 6.5 - 173.3Mbps | | |
| | | 802.11 ac_40MHz: 13.5 - 400Mbps | | |
| | | 802.11 ax_20MHz: 0.4 - 286.8Mbps | | |
| | | 802.11 ax_40MHz: 0.4 - 573.5Mbps | | |

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WLAN 2.4GHz for IC

| Wi-Fi | Frequency Range | Channels | Rated Power in dBm (Avg) | Rated Power in dBm (EIRP) | Modulation Technology |
|------------------|-----------------|---|--------------------------|---------------------------|-----------------------|
| 802.11b | 2412~2462 | 11 | 22.91 | 29.12 | DSSS |
| 802.11g | 2412~2462 | 11 | 21.91 | 28.12 | OFDM |
| 802.11n20 | 2412~2462 | 11 | 20.96 | 27.17 | OFDM |
| 802.11n40 | 2422~2452 | 7 | 18.94 | 25.15 | OFDM |
| 802.11ac20 | 2412~2462 | 11 | 20.87 | 27.08 | OFDM |
| 802.11ac40 | 2422~2452 | 7 | 18.87 | 25.08 | OFDM |
| 802.11ax20 | 2412~2462 | 11 | 20.94 | 27.15 | OFDMA |
| 802.11ax40 | 2422~2452 | 7 | 18.97 | 25.18 | OFDMA |
| Modulation type: | | CCK, DQPSK, DBPSK for DSSS | | | |
| | | 256 QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM | | | |
| | | 1024 QAM, 256 QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA | | | |
| Data Rate: | | 802.11 b: 1/2/5.5/11 Mbps | | | |
| | | 802.11 g: 6/9/12/18/24/36/48/54 Mbps | | | |
| | | 802.11 n_20MHz: 6.5 - 144.4Mbps | | | |
| | | 802.11 n_40MHz: 13.5 - 300Mbps | | | |
| | | 802.11 ac_20MHz: 6.5 - 173.3Mbps | | | |
| | | 802.11 ac_40MHz: 13.5 - 400Mbps | | | |
| | | 802.11 ax_20MHz: 0.4 - 286.8Mbps | | | |
| | | 802.11 ax_40MHz: 0.4 - 573.5Mbps | | | |

1.3 Antenna Designation

| Antenna Type | Freq. (MHz) | Peak Antenna Gain (dBi) | Directional Gain (dBi) |
|--------------|-------------|-------------------------|------------------------|
| Dipole | 2412-2462 | 3.2 | 6.21 |

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. Antenna information is provided by the applicant.

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1.4 Test Methodology of Applied Standards

- FCC Part 15, Subpart C §15.247
- FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01
- RSS-247 issue 2 Feb. 2017
- RSS-Gen, Issue 5 (Amendment 2, February 2021)
- ANSI C63.10:2013

1.5 Test Facility

| Laboratory | Test Site Address | Test Site Name | FCC Designation number | IC CAB identifier |
|--|---|----------------|------------------------|-------------------|
| SGS Taiwan Ltd. Central RF Lab. (TAF code 3702) | No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. | SAC 1 | TW0027 | TW3702 |
| | | SAC 3 | | |
| | | Conduction 1 | | |
| | | Conducted 1 | | |
| | | Conducted 2 | | |
| | | Conducted 3 | | |
| | | Conducted 4 | | |
| | | Conducted 5 | | |
| | Conducted 6 | | | |
| | No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 | Conduction C | TW0028 | |
| | | SAC C | | |
| | | SAC D | | |
| | | SAC G | | |
| | | Conducted A | | |
| | | Conducted B | | |
| | | Conducted C | | |
| | | Conducted D | | |
| | | Conducted E | | |
| | | Conducted F | | |
| Conducted G | | | | |
| Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address. | | | | |

1.6 Special Accessories

There are no special accessories used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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1.8 Model Difference

LBEE5ZZ1XL has a dedicated antenna port for BT.

LBEE5ZZ2XS BT shares same antenna port with WLAN.

Some passive components are different between models as below.

| LBEE5ZZ1XL | LBEE5ZZ2XS |
|------------------|-----------------|
| C 336 No mounted | C336 mounted |
| C337 mounted | C337 No mounted |
| L310 mounted | L310 No mounted |

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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2.4 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

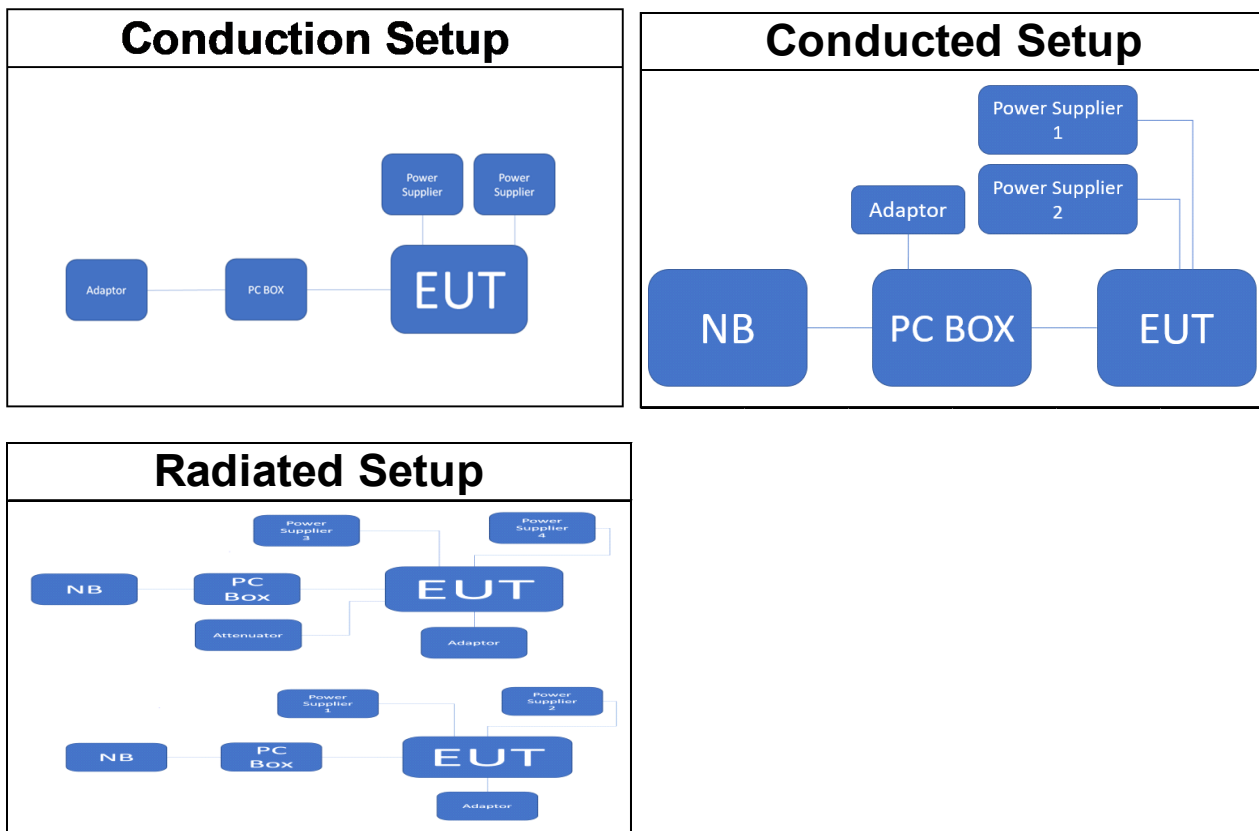
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

2.5 Test Configuration



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2.6 Control Unit(s)

| Conducted Emission Test Site: Conducted D | | | | | |
|---|--------|--------------|---------------|-----------|----------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Notebook | Lenovo | T420 | S0012599 | N/A | N/A |
| Notebook | Lenovo | L420 | S0011721 | N/A | N/A |

| Radiated Emission Test Site: SAC D | | | | | |
|------------------------------------|--------|--------------|---------------|-----------|----------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| LAN Cable | 向聯 | VPH-02 | 1500021123 | N.C.R | N.C.R |
| LAN Cable | INVAX | IVX011 | N/A | N.C.R | N.C.R |
| Notebook | Lenovo | T470 | P0001293 | N/A | N/A |
| Notebook | Lenovo | T420 | S0012599 | N/A | N/A |
| Adapter | APD | NB-65B19 | N/A | N/A | N/A |
| Adapter | FSP | FSP065-REBN2 | H6081012364 | N.C.R | N.C.R |

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3 SUMMARY OF TEST RESULTS

| FCC Rules | ISED Rules | Description Of Test | Result |
|----------------------------------|--|--|-----------|
| §15.207(a) | RSS-Gen §8.8 | AC Power Line Conducted Emission | Compliant |
| §15.247(b) (3) | RSS-247 §5.4 d | Peak Output Power | Compliant |
| §15.247(a)(2) | RSS-247 §5.2 a RSS-Gen §6.7 | Emission Bandwidth | Compliant |
| §15.205 §15.209 §15.247(d) | RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10 RSS-Gen §6.13 | Radiated & Conducted Band Edge and Spurious Emission | Compliant |
| §15.247(e) | RSS-247 §5.2 b | Power Spectral Density | Compliant |
| §15.203 | N/A | Antenna Requirement | Compliant |

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4 DESCRIPTION OF TEST MODES

4.1 Operatin Frequencies

Modulation of 20MHz nominal bandwidth

| CHANNEL | FREQUENCY (MHz) |
|---------|-----------------|
| 1 | 2412 |
| 2 | 2417 |
| 3 | 2422 |
| 4 | 2427 |
| 5 | 2432 |
| 6 | 2437 |
| 7 | 2442 |
| 8 | 2447 |
| 9 | 2452 |
| 10 | 2457 |
| 11 | 2462 |

Modulation of 40MHz nominal bandwidth

| CHANNEL | FREQUENCY (MHz) |
|---------|-----------------|
| 3 | 2422 |
| 4 | 2427 |
| 5 | 2432 |
| 6 | 2437 |
| 7 | 2442 |
| 8 | 2447 |
| 9 | 2452 |

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

The gevin UE is pre-scanned among below modes.

| Modulation | | Transmission Chain | | | | | | | Single Transmission Spatial | Multi Transmission Spatial | | | |
|------------|-----------|--------------------|-----|---|-----|--|-----|--|-----------------------------|----------------------------|------|---|------|
| v | 802.11 b | v | Ch0 | v | Ch1 | | Ch2 | | Ch3 | | 1TX | v | 2TX |
| v | 802.11 g | v | Ch0 | v | Ch1 | | Ch2 | | Ch3 | | 1TX | v | 2TX |
| v | 802.11 n | v | Ch0 | v | Ch1 | | Ch2 | | Ch3 | | SISO | v | MIMO |
| v | 802.11 ax | v | Ch0 | v | Ch1 | | Ch2 | | Ch3 | | SISO | v | MIMO |

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.
5. Observations have been done for 802.11 ax available RU configurations below and found that the lowest, highest and Full RU results higher emissions. Only one RU can be enabled at any given time.

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| 802.11ax | | 20MHz | | | | 802.11ax | | 40MHz | | | |
|-------------------------------|------|------------------|-------------|--------------------|-------------------------------|----------|--------------|-------------|--------------------|------------|--|
| RU type | | 26-tone RU | | 52-tone RU | | RU type | | 26-tone RU | | 52-tone RU | |
| RU index and subcarrier range | RU0 | [-121: -96] | RU37 | [-121: -70] | RU index and subcarrier range | RU0 | [-243: -218] | RU37 | [-243: -192] | | |
| | RU1 | [-95: -70] | RU38 | [-68: -17] | | RU1 | [-217: -192] | RU38 | [-189: -138] | | |
| | RU2 | [-68: -43] | RU39 | [17: 68] | | RU2 | [-189: -164] | RU39 | [-109: -58] | | |
| | RU3 | [-42: -17] | RU40 | [70: 121] | | RU3 | [-163: -138] | RU40 | [-55: -4] | | |
| | RU4 | [-16: -4, 4: 16] | RU41 | N/A | | RU4 | [-136: -111] | RU41 | [4: 55] | | |
| | RU5 | [17: 42] | RU42 | N/A | | RU5 | [-109: -84] | RU42 | [58: 109] | | |
| | RU6 | [43: 68] | RU43 | N/A | | RU6 | [-83: -58] | RU43 | [138: 189] | | |
| | RU7 | [70: 95] | RU44 | N/A | | RU7 | [-55: -30] | RU44 | [192: 243] | | |
| | RU8 | [96: 121] | RU45 | N/A | | RU8 | [-29: -4] | RU45 | N/A | | |
| | RU9 | N/A | RU46 | N/A | | RU9 | [4: 29] | RU46 | N/A | | |
| | RU10 | N/A | RU47 | N/A | | RU10 | [30: 55] | RU47 | N/A | | |
| | RU11 | N/A | RU48 | N/A | | RU11 | [58: 83] | RU48 | N/A | | |
| | RU12 | N/A | RU49 | N/A | | RU12 | [84: 109] | RU49 | N/A | | |
| | RU13 | N/A | RU50 | N/A | | RU13 | [111: 136] | RU50 | N/A | | |
| | RU14 | N/A | RU51 | N/A | | RU14 | [138: 163] | RU51 | N/A | | |
| | RU15 | N/A | RU52 | N/A | | RU15 | [164: 189] | RU52 | N/A | | |
| | RU16 | N/A | | | | RU16 | [192: 217] | | | | |
| | RU17 | N/A | 106-tone RU | | | RU17 | [218: 243] | 106-tone RU | | | |
| | RU18 | N/A | RU53 | [-122: -17] | | RU18 | N/A | RU53 | [-243: -138] | | |
| | RU19 | N/A | RU54 | [17: 122] | | RU19 | N/A | RU54 | [-109: -4] | | |
| | RU20 | N/A | RU55 | N/A | | RU20 | N/A | RU55 | [4: 109] | | |
| | RU21 | N/A | RU56 | N/A | | RU21 | N/A | RU56 | [138: 243] | | |
| | RU22 | N/A | RU57 | N/A | | RU22 | N/A | RU57 | N/A | | |
| | RU23 | N/A | RU58 | N/A | | RU23 | N/A | RU58 | N/A | | |
| | RU24 | N/A | RU59 | N/A | | RU24 | N/A | RU59 | N/A | | |
| | RU25 | N/A | RU60 | N/A | | RU25 | N/A | RU60 | N/A | | |
| | RU26 | N/A | | | | RU26 | N/A | | | | |
| | RU27 | N/A | 242-tone RU | | | RU27 | N/A | 242-tone RU | | | |
| | RU28 | N/A | RU61 | [-122: -2, 2: 122] | | RU28 | N/A | RU61 | [-244: -3] | | |
| | RU29 | N/A | RU62 | N/A | | RU29 | N/A | RU62 | [3: 244] | | |
| | RU30 | N/A | RU63 | N/A | | RU30 | N/A | RU63 | N/A | | |
| | RU31 | N/A | RU64 | N/A | | RU31 | N/A | RU64 | N/A | | |
| | RU32 | N/A | | | | RU32 | N/A | | | | |
| | RU33 | N/A | | | | RU33 | N/A | 484-tone RU | | | |
| | RU34 | N/A | | | | RU34 | N/A | RU65 | [-244: -3, 3: 244] | | |
| | RU35 | N/A | | | | RU35 | N/A | RU66 | N/A | | |
| RU36 | N/A | | | RU36 | N/A | | | | | | |

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| Conducted | | | | | |
|-----------------|-------------------|----------------|------------|------------------|--------------|
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11b | 1 to 11 | 1,2,6,10,11 | DSSS | 1 | 2TX |
| 802.11g | 1 to 11 | 1,2,6,10,11 | OFDM | 6 | 2TX |
| 802.11n (HT20) | 1 to 11 | 1,2,6,10,11 | OFDM | MCS8 | MIMO |
| 802.11n (HT40) | 3 to 9 | 3,4,6,8,9 | OFDM | MCS8 | MIMO |
| 802.11ax (HE20) | 1 to 11 | 1,2,6,10,11 | OFDMA | MCS0 | MIMO |
| 802.11ax (HE40) | 3 to 9 | 3,4,6,8,9 | OFDMA | MCS0 | MIMO |

| RADIATED EMISSION TEST (BELOW 1 GHz) | | | | | |
|--------------------------------------|-------------------|----------------|------------|------------------|--------------|
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11g | 1 to 11 | 1,6,11 | OFDM | 6 | 2TX |

| RADIATED EMISSION TEST (ABOVE 1 GHz) | | | | | |
|--------------------------------------|-------------------|----------------|------------|------------------|--------------|
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11b | 1 to 11 | 1,2,6,10,11 | DSSS | 1 | 2TX |
| 802.11g | 1 to 11 | 1,2,6,10,11 | OFDM | 6 | 2TX |
| 802.11n (HT20) | 1 to 11 | 1,2,6,10,11 | OFDM | MCS8 | MIMO |
| 802.11n (HT40) | 3 to 9 | 3,4,6,8,9 | OFDM | MCS8 | MIMO |
| 802.11ax (HE20) | 1 to 11 | 1,2,6,10,11 | OFDMA | MCS0 | MIMO |
| 802.11ax (HE40) | 3 to 9 | 3,4,6,8,9 | OFDMA | MCS0 | MIMO |

Note:

The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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5 MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty |
|--|-------------|
| AC Power Line Conducted Emission | +/- 2.34 dB |
| Output Power measurement | +/- 1 dB |
| Emission Bandwidth | +/- 1.53 Hz |
| Undesignable radiated emission measurement | +/- 1.68 dB |
| Peak Power Density | +/- 1.62 dB |
| Temperature | +/- 0.4 °C |
| Humidity | +/- 3.5 % |
| DC / AC Power Source | +/- 1 % |

| Radiated Spurious Emission Measurement Uncertainty | | | |
|--|-----|---------|-----------------|
| Polarization: Vertical | +/- | 2.57 dB | 9kHz~30MHz |
| | +/- | 4.85 dB | 30MHz - 1000MHz |
| | +/- | 4.45 dB | 1GHz - 18GHz |
| | +/- | 4.24 dB | 18GHz - 40GHz |
| Polarization: Horizontal | +/- | 2.57 dB | 9kHz~30MHz |
| | +/- | 4.37 dB | 30MHz - 1000MHz |
| | +/- | 4.45 dB | 1GHz - 18GHz |
| | +/- | 4.24 dB | 18GHz - 40GHz |

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

| AC Power-Line Conducted Emission Test Site: Conduction C | | | | | |
|--|------------------------------------|-------------------|-----------------------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| LISN | SCHWARZBECK Mess- Elektronik | NSLK8127 | 974 | 04/19/2021 | 04/18/2022 |
| LISN | SCHWARZBECK Mess- Elektronik | NSLK8127 | 974 | 04/13/2022 | 04/12/2023 |
| EMI Test Receiver | R&S | ESCI | 101342 | 04/28/2021 | 04/27/2022 |
| EMI Test Receiver | R&S | ESCI | 101342 | 04/25/2022 | 04/24/2023 |
| DC Power Supply | Gwinstek | SPS-3610 | GEV856769 | 08/04/2021 | 08/03/2022 |
| DC Power Supply | DHA | DPS-3003 | 9411005787 | 08/20/2021 | 08/19/2022 |
| Coaxial Cable | EC Lab | RF-HY-CAB- 250 | RF-HY-CAB- 250-01 | 03/27/2022 | 03/26/2023 |
| Pulse Limiter | EC Lab | VTSD 9561F- N | 04/29/1901 | 03/27/2022 | 03/26/2023 |
| Test Software | audix | e3 | E3 20923 SGS Ver.9 (C) | N.C.R | N.C.R |

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6.2 Conducted Measurement

| Conducted Emission Test Site: Conducted D | | | | | |
|---|-----------------------|----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | KEYSIGHT | N9010B | MY59071574 | 06/25/2021 | 06/24/2022 |
| Power Meter | Anritsu | ML2496A | 1512003 | 07/27/2021 | 07/26/2022 |
| Power Sensor | Anritsu | MA2411B | 1339378 | 07/27/2021 | 07/26/2022 |
| Power Sensor | Anritsu | MA2411B | 1339379 | 07/27/2021 | 07/26/2022 |
| DC Power Supply | Agilent | E3640A | MY53130054 | 09/30/2021 | 09/29/2022 |
| DC Power Supply | Agilent | E3640A | MY53140006 | 05/28/2021 | 05/27/2022 |
| DC Power Supply | Agilent | E3640A | MY53140006 | 05/16/2022 | 05/15/2023 |
| DC Power Supply | HOLA | DP-3003 | D7070035 | 05/28/2021 | 05/27/2022 |
| DC Power Supply | HOLA | DP-3003 | D7070035 | 06/09/2022 | 06/08/2023 |
| DC Power Supply | Gwinstek | SPS-3610 | GEV856767 | 09/29/2021 | 09/28/2022 |
| Attenuator | Marvelous | MVE2213-10 | RF13 | 11/18/2021 | 11/17/2022 |
| Attenuator | Marvelous | WATT-218FS-10 | RF15 | 11/18/2021 | 11/17/2022 |
| Attenuator | KEYSIGHT | 8494B | TH60075424 | 05/07/2021 | 05/06/2022 |
| Attenuator | KEYSIGHT | 8494B | TH60075424 | 05/06/2022 | 05/05/2023 |
| Coupler | narda | MDC2044-20 | RF36 | 11/18/2021 | 11/17/2022 |
| DC Block | PASTERNAK | PE8210 | RF158 | 11/18/2021 | 11/17/2022 |
| Splitter | Marvelous Microwave | MVE8576 | RF256 | 11/18/2021 | 11/17/2022 |
| RF Switch | E-INSTRUMENT TECH LTD | ETF-1801 | EC2100175 | 09/10/2021 | 09/09/2022 |
| Coaxial Cables | Woken | 00100A1F2A196C | RF62 | 11/18/2021 | 11/17/2022 |
| Coaxial Cables | Woken | 00100A1F2A196C | RF64 | 11/18/2021 | 11/17/2022 |
| Coaxial Cables | Woken | 00100A1F1A185C | RF71 | 11/18/2021 | 11/17/2022 |

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6.3 Radiated Measurement

| Radiated Emission Test Site: SAC D | | | | | |
|------------------------------------|-----------------|-------------------|--------------------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Broadband Antenna | SCHWARZBECK | VULB 9168 | 9168-617 | 11/12/2021 | 11/11/2022 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 185 | 08/06/2021 | 08/05/2022 |
| Horn Antenna | Schwarzbeck | BBHA9120D | 1341 | 06/04/2021 | 06/03/2022 |
| Loop Antenna | ETS.LINDGREN | 6502 | 143303 | 05/07/2021 | 05/06/2022 |
| Loop Antenna | ETS.LINDGREN | 6502 | 148045 | 09/29/2021 | 09/28/2022 |
| 3m Site NSA | SGS | 966 chamber D | N/A | 07/12/2021 | 07/11/2022 |
| Test Software | audix | e3 | E3 20923 SGS Ver.9 (C) | N.C.R | N.C.R |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY57120200 | 03/24/2021 | 03/23/2022 |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY57120200 | 03/24/2022 | 03/23/2023 |
| Pre-Amplifier | EMC Instruments | EMC184045B | 980135 | 10/27/2021 | 10/26/2022 |
| Pre-Amplifier | EMC Instruments | EMC9135 | 980234 | 11/18/2021 | 11/17/2022 |
| Pre-Amplifier | EMC Instruments | EMC12630SE | 980273 | 11/18/2021 | 11/17/2022 |
| Attenuator | KEYSIGHT | 8494B | TH60075424 | 05/07/2021 | 05/06/2022 |
| Attenuator | KEYSIGHT | 8494B | TH60075424 | 05/07/2022 | 05/06/2023 |
| DC Power Supply | Gwinstek | SPS-3610 | GEV856769 | 08/04/2021 | 08/03/2022 |
| DC Power Supply | DHA | DPS-3003 | 9411005787 | 08/20/2021 | 08/19/2022 |
| DC Power Supply | Agilent | E3640A | MY53140006 | 05/28/2021 | 05/27/2022 |
| DC Power Supply | Agilent | E3640A | MY53140006 | 05/28/2022 | 05/27/2023 |
| DC Power Supply | Agilent | E3640A | MY53170008 | 09/18/2021 | 09/17/2022 |
| Coaxial Cable | Huber+Suhner | RG 214/U | W21.01 | 11/18/2021 | 11/17/2022 |
| Coaxial Cable | Huber Suhner | EMC106-SM-SM-7200 | 150703 | 11/18/2021 | 11/17/2022 |
| Coaxial Cable | Huber Suhner | SUCOFLEX 104 | MY17413/4 | 11/18/2021 | 11/17/2022 |
| Attenuator | Marvelous | WATT-218FS-10 | RF17 | 11/18/2021 | 11/17/2022 |

NOTE: N.C.R refers to Not Calibrated Required.

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

| Frequency range MHz | Limits (dBuV) | |
|------------------------|------------------|----------|
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |

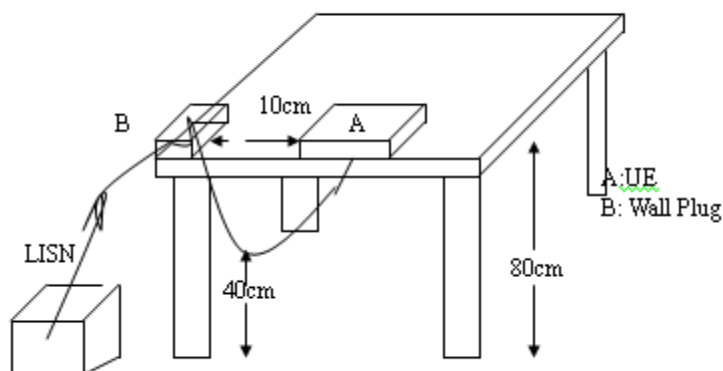
Note

- The lower limit shall apply at the transition frequencies
- The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

7.2 EUT Setup

- The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- The LISN was connected with 120Vac/60Hz power source.

7.3 Test Setup



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7.4 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed.

7.5 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit.

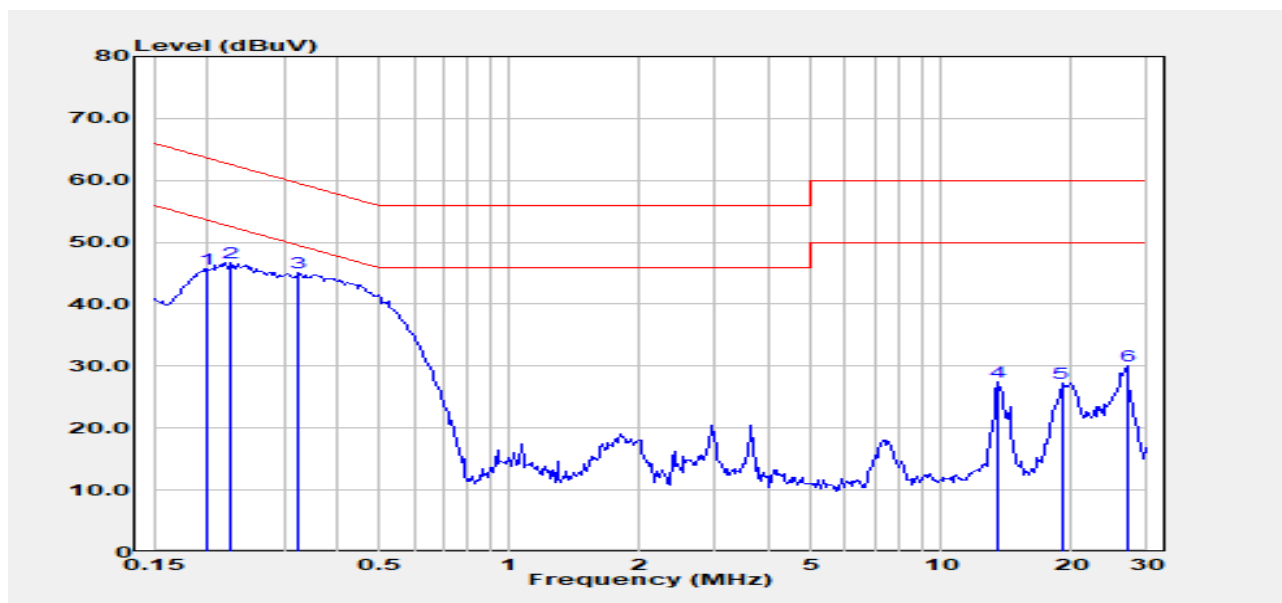
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AC POWER LINE CONDUCTED EMISSION TEST DATA

| | | | |
|---------------|-------------------------|-------------|---------------|
| Report Number | :E2/2022/10038 | Test Site | :Conduction C |
| Test Mode | :2.4G | Test Date | :2022-04-01 |
| Power | :120V/60Hz | Temp./Humi. | :20.8/63 |
| Probe | :L1 | Engineer | :Jack Tseng |
| Note: | : Adapter:FSP0065-REBN2 | | |



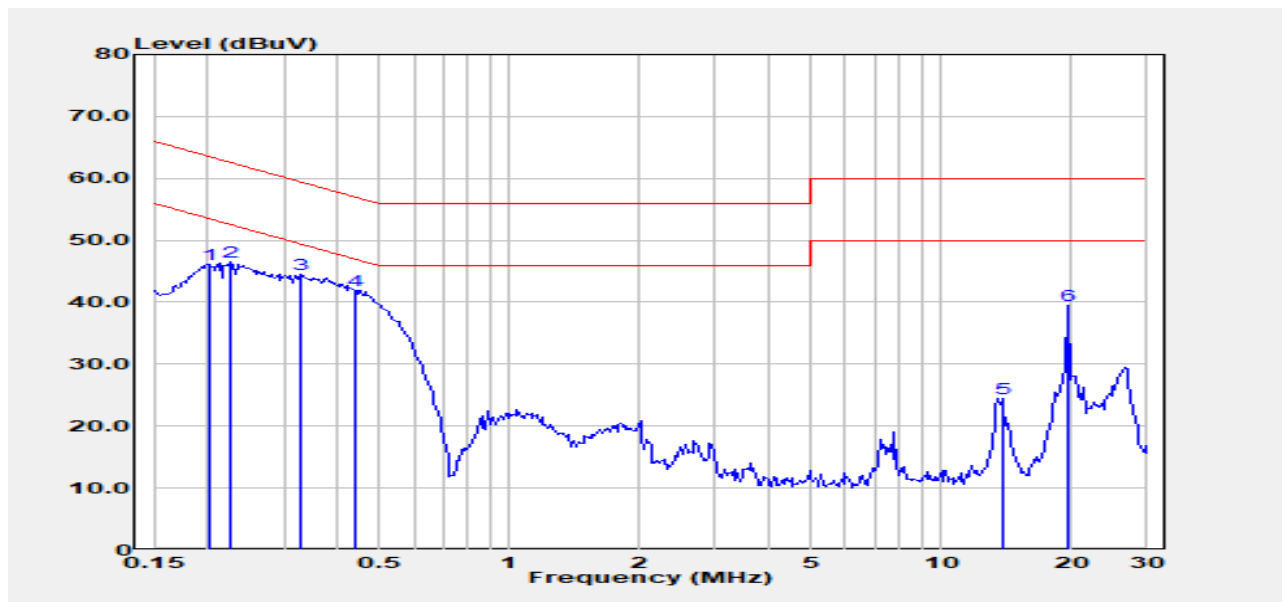
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V | Limit dB μ V | Margin dB |
|--------------|------------------------------|---|--------------|----------------------------|---------------------|--------------|
| 0.200 | Peak | 35.54 | 10.27 | 45.81 | 63.62 | -17.82 |
| 0.227 | Peak | 36.38 | 10.28 | 46.66 | 62.57 | -15.91 |
| 0.325 | Peak | 34.80 | 10.29 | 45.09 | 59.57 | -14.48 |
| 13.551 | Peak | 16.62 | 10.75 | 27.38 | 60.00 | -32.62 |
| 19.021 | Peak | 16.34 | 10.85 | 27.20 | 60.00 | -32.80 |
| 26.984 | Peak | 19.01 | 11.05 | 30.06 | 60.00 | -29.94 |

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Report Number :E2/2022/10038 Test Site :Conduction C
 Test Mode :2.4G Test Date :2022-04-01
 Power :120V/60Hz Temp./Humi. :20.8/63
 Probe :N Engineer :Jack Tseng
 Note: : Adapter:FSP0065-REBN2



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V | Limit dB μ V | Margin dB |
|--------------|------------------------------|---|--------------|----------------------------|---------------------|--------------|
| 0.202 | Peak | 35.80 | 10.27 | 46.07 | 63.54 | -17.47 |
| 0.224 | Peak | 36.32 | 10.27 | 46.59 | 62.66 | -16.06 |
| 0.329 | Peak | 34.16 | 10.29 | 44.45 | 59.49 | -15.04 |
| 0.437 | Peak | 31.70 | 10.30 | 42.00 | 57.11 | -15.11 |
| 13.841 | Peak | 13.80 | 10.72 | 24.51 | 60.00 | -35.49 |
| 19.635 | Peak | 28.74 | 10.83 | 39.57 | 60.00 | -20.43 |

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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

8.2 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

8.3 Output Power

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt and the e.i.r.p. shall not exceed 4 W.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power form the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$\bullet \quad DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = 10^{Gk/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

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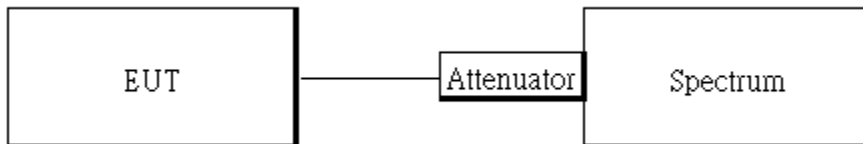
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G_k is the gain in dBi of the kth antenna.

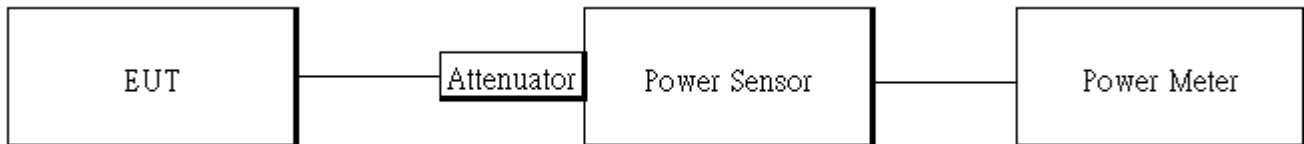
The antenna gain is greater than 6 dBi, therefore the power limit attenuation has been applied in the test results.

8.4 Test Setup

8.4.1 Duty Cycle



8.4.2 Output Power:



8.5 Measurement Procedure

8.5.1 Duty Cycle:

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

8.5.2 Output Power

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Spectrum or Power Meter.
5. MIMO mode: offset is set with “measure and add 10 Log (N)” to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna, cable loss is specified below.

*** Note: The duty cycle factor and below is compensated to obtain the maximum value of measurement in average.**

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8.6 Measurement Result

8.6.1 Duty Cycle:

| | Duty Cycle (%) = Ton / (Ton+Toff) | Duty Factor (dB) =10*log (1/Duty Cycle) | 1/T (kHz) | VBW setting (kHz) |
|-------------|--------------------------------------|--|--------------|----------------------|
| 802.11b | 99.86 | 0.01 | 0.12 | 0.01 |
| 802.11g | 98.96 | 0.05 | 0.70 | 0.01 |
| 802.11n_20 | 97.88 | 0.09 | 1.45 | 2.00 |
| 802.11n_40 | 95.96 | 0.18 | 2.81 | 3.00 |
| 802.11ac_20 | 97.90 | 0.09 | 1.43 | 2.00 |
| 802.11ac_40 | 96.00 | 0.18 | 2.78 | 3.00 |
| 802.11ax_20 | 97.37 | 0.12 | 1.80 | 2.00 |
| 802.11ax_40 | 95.33 | 0.21 | 3.27 | 4.00 |

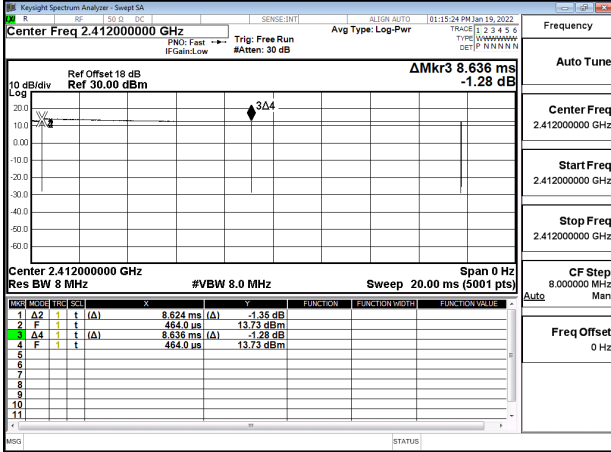
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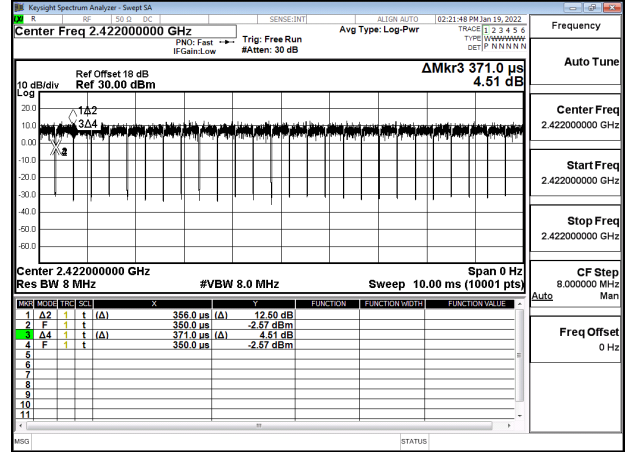
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8.6.2 Duty Cycle test plots

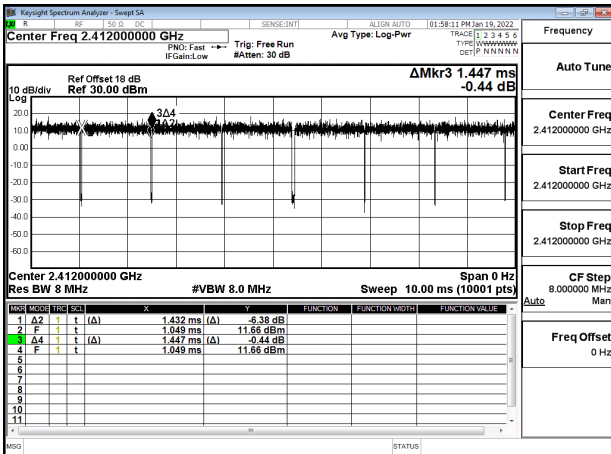
802.11b_20MHz_Chain0_2412MHz



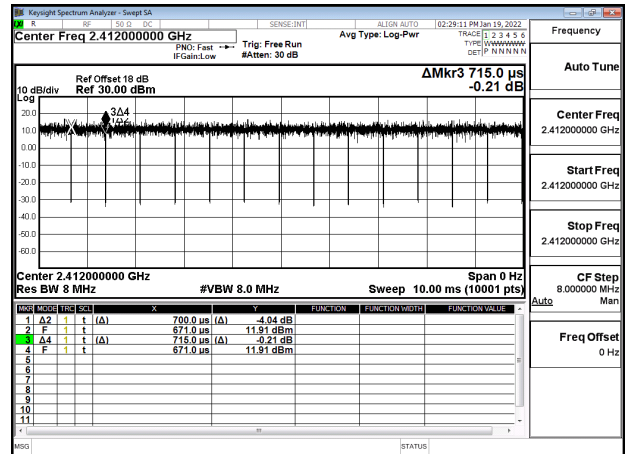
802.11n_40MHz_Chain0_2422MHz



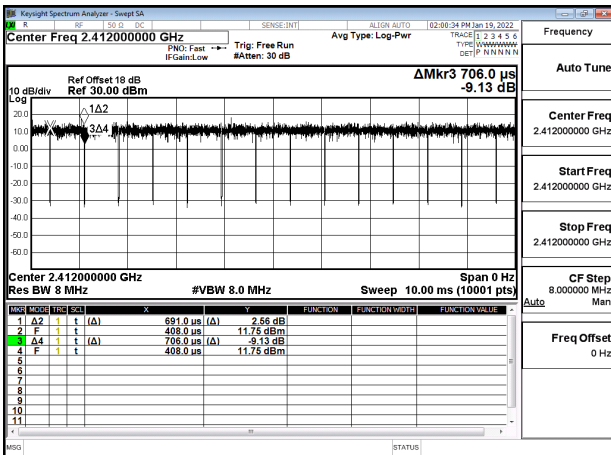
802.11g_20MHz_Chain0_2412MHz



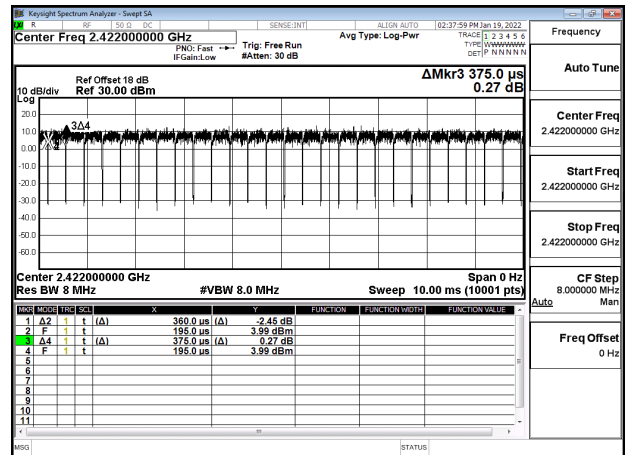
802.11ac_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain0_2412MHz



802.11ac_40MHz_Chain0_2422MHz

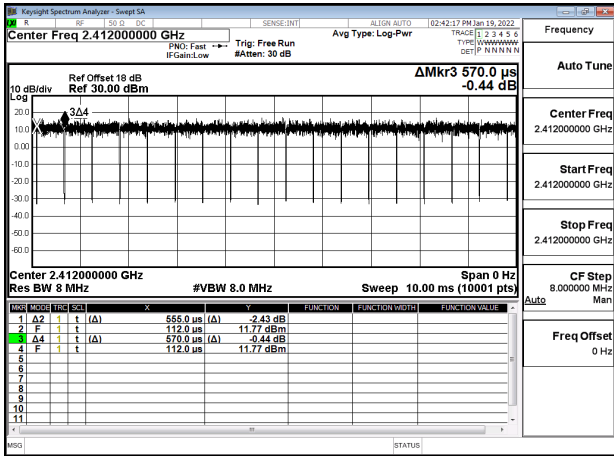


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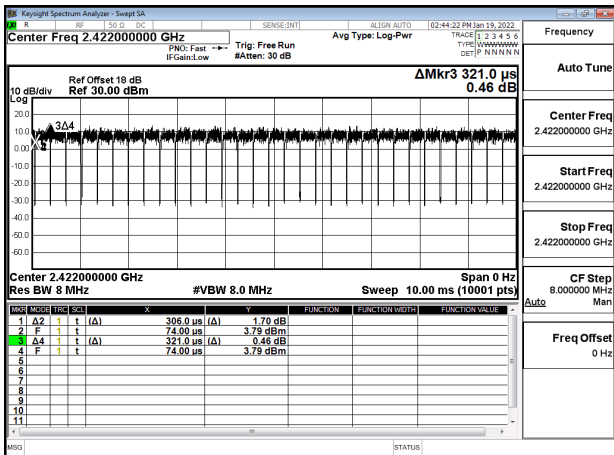
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802.11ax_20MHz_Chain0_2412MHz



802.11ax_40MHz_Chain0_2422MHz



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8.6.3 Output Power

| 802.11b Ch0 | | | | | | |
|-------------|-------------|-----------|-----------|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 1 | 16 | 18.52 | 30.00 | PASS |
| 2 | 2417 | 1 | 20 | 22.40 | 30.00 | PASS |
| 6 | 2437 | 1 | 19.5 | 22.26 | 30.00 | PASS |
| 10 | 2457 | 1 | 20 | 22.42 | 30.00 | PASS |
| 11 | 2462 | 1 | 15.5 | 18.31 | 30.00 | PASS |
| 802.11b Ch0 | | | | | | |
| CH | Freq. (MHz) | Data Rate | Power set | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 1 | 16 | 15.76 | 30.00 | PASS |
| 2 | 2417 | 1 | 20 | 19.88 | 30.00 | PASS |
| 6 | 2437 | 1 | 19.5 | 19.78 | 30.00 | PASS |
| 10 | 2457 | 1 | 20 | 19.84 | 30.00 | PASS |
| 11 | 2462 | 1 | 15.5 | 15.74 | 30.00 | PASS |
| 802.11b Ch1 | | | | | | |
| CH | Freq. (MHz) | Data Rate | Power set | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 1 | 16 | 18.31 | 30.00 | PASS |
| 2 | 2417 | 1 | 20 | 22.15 | 30.00 | PASS |
| 6 | 2437 | 1 | 19.5 | 22.01 | 30.00 | PASS |
| 10 | 2457 | 1 | 20 | 22.17 | 30.00 | PASS |
| 11 | 2462 | 1 | 15.5 | 18.05 | 30.00 | PASS |
| 802.11b Ch1 | | | | | | |
| CH | Freq. (MHz) | Data Rate | Power set | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 1 | 16 | 15.69 | 30.00 | PASS |
| 2 | 2417 | 1 | 20 | 19.76 | 30.00 | PASS |
| 6 | 2437 | 1 | 19.5 | 19.63 | 30.00 | PASS |
| 10 | 2457 | 1 | 20 | 19.73 | 30.00 | PASS |
| 11 | 2462 | 1 | 15.5 | 15.63 | 30.00 | PASS |

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| 802.11b_2TX | | | | | | | | |
|-------------|-------------|-----------|-----------|-------------------|-------|-------------------------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Peak Output Power | | Total Peak Output Power (dBm) | Limit (dBm) | RESULT |
| | | | | CH 0 | CH 1 | | | |
| 1 | 2412 | 1 | 16 | 18.66 | 18.32 | 21.50 | 29.79 | PASS |
| 2 | 2417 | 1 | 20 | 22.43 | 22.14 | 25.30 | 29.79 | PASS |
| 6 | 2437 | 1 | 20 | 22.67 | 22.33 | 25.51 | 29.79 | PASS |
| 10 | 2457 | 1 | 20 | 22.51 | 21.97 | 25.26 | 29.79 | PASS |
| 11 | 2462 | 1 | 16 | 18.75 | 18.33 | 21.56 | 29.79 | PASS |

| 802.11b_2TX | | | | | | | | |
|-------------|-------------|-----------|-----------|-------------------------|-------|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Avg. Output Power (dBm) | | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| | | | | CH 0 | CH 1 | | | |
| 1 | 2412 | 1 | 16 | 15.85 | 15.68 | 18.79 | 29.79 | PASS |
| 2 | 2417 | 1 | 20 | 20.06 | 19.72 | 22.91 | 29.79 | PASS |
| 6 | 2437 | 1 | 20 | 19.93 | 19.71 | 22.84 | 29.79 | PASS |
| 10 | 2457 | 1 | 20 | 19.96 | 19.80 | 22.90 | 29.79 | PASS |
| 11 | 2462 | 1 | 16 | 15.91 | 15.75 | 18.85 | 29.79 | PASS |

| 802.11g Ch0 | | | | | | | |
|-------------|-------------|-----------|-----------|-------------------------|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Peak Output Power (dBm) | | Limit (dBm) | RESULT |
| 1 | 2412 | 6 | 11.5 | 20.94 | | 30.00 | PASS |
| 2 | 2417 | 6 | 19 | 25.12 | | 30.00 | PASS |
| 6 | 2437 | 6 | 18.5 | 25.04 | | 30.00 | PASS |
| 10 | 2457 | 6 | 19 | 24.99 | | 30.00 | PASS |
| 11 | 2462 | 6 | 11.5 | 20.79 | | 30.00 | PASS |

| 802.11g Ch0 | | | | | | | |
|-------------|-------------|-----------|-----------|--|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Max. Avg. Output include tune up tolerance Power (dBm) | | Limit (dBm) | RESULT |
| 1 | 2412 | 6 | 11.5 | 11.83 | | 30.00 | PASS |
| 2 | 2417 | 6 | 19 | 18.82 | | 30.00 | PASS |
| 6 | 2437 | 6 | 18.5 | 18.79 | | 30.00 | PASS |
| 10 | 2457 | 6 | 19 | 18.76 | | 30.00 | PASS |
| 11 | 2462 | 6 | 11.5 | 11.77 | | 30.00 | PASS |

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| 802.11g Ch1 | | | | | | |
|-------------|-------------|-----------|-----------|-------------------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 6 | 11.5 | 20.65 | 30.00 | PASS |
| 2 | 2417 | 6 | 19 | 24.84 | 30.00 | PASS |
| 6 | 2437 | 6 | 18.5 | 24.81 | 30.00 | PASS |
| 10 | 2457 | 6 | 19 | 24.73 | 30.00 | PASS |
| 11 | 2462 | 6 | 11.5 | 20.52 | 30.00 | PASS |

| 802.11g Ch1 | | | | | | |
|-------------|-------------|-----------|-----------|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 6 | 11.5 | 11.69 | 30.00 | PASS |
| 2 | 2417 | 6 | 19 | 18.70 | 30.00 | PASS |
| 6 | 2437 | 6 | 18.5 | 18.66 | 30.00 | PASS |
| 10 | 2457 | 6 | 19 | 18.64 | 30.00 | PASS |
| 11 | 2462 | 6 | 11.5 | 11.65 | 30.00 | PASS |

| 802.11g_2TX | | | | | | | | |
|-------------|-------------|-----------|-----------|-------------------|-------|-------------------------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Peak Output Power | | Total Peak Output Power (dBm) | Limit (dBm) | RESULT |
| | | | | CH 0 | CH 1 | | | |
| 1 | 2412 | 6 | 12 | 21.76 | 21.52 | 24.65 | 29.79 | PASS |
| 2 | 2417 | 6 | 18.5 | 24.53 | 24.73 | 27.64 | 29.79 | PASS |
| 6 | 2437 | 6 | 18.5 | 24.52 | 24.71 | 27.63 | 29.79 | PASS |
| 10 | 2457 | 6 | 19 | 24.73 | 24.50 | 27.63 | 29.79 | PASS |
| 11 | 2462 | 6 | 12 | 21.20 | 21.12 | 24.17 | 29.79 | PASS |

| 802.11g_2TX | | | | | | | | |
|-------------|-------------|-----------|-----------|-------------------------|-------|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Avg. Output Power (dBm) | | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| | | | | CH 0 | CH 1 | | | |
| 1 | 2412 | 6 | 12 | 11.87 | 11.73 | 14.86 | 29.79 | PASS |
| 2 | 2417 | 6 | 18.5 | 18.85 | 18.70 | 21.84 | 29.79 | PASS |
| 6 | 2437 | 6 | 18.5 | 18.89 | 18.75 | 21.88 | 29.79 | PASS |
| 10 | 2457 | 6 | 19 | 19.03 | 18.67 | 21.91 | 29.79 | PASS |
| 11 | 2462 | 6 | 12 | 11.84 | 11.71 | 14.84 | 29.79 | PASS |

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| 802.11nHT_20M Ch0 | | | | | | |
|-------------------|-------------|-----------|-----------|-------------------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | MCS0 | 9.5 | 18.93 | 30.00 | PASS |
| 2 | 2417 | MCS0 | 18 | 25.02 | 30.00 | PASS |
| 6 | 2437 | MCS0 | 17.5 | 24.90 | 30.00 | PASS |
| 10 | 2457 | MCS0 | 18 | 24.90 | 30.00 | PASS |
| 11 | 2462 | MCS0 | 11.5 | 20.98 | 30.00 | PASS |

| 802.11nHT_20M Ch0 | | | | | | |
|-------------------|-------------|-----------|-----------|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | MCS0 | 9.5 | 9.84 | 30.00 | PASS |
| 2 | 2417 | MCS0 | 18 | 17.80 | 30.00 | PASS |
| 6 | 2437 | MCS0 | 17.5 | 17.86 | 30.00 | PASS |
| 10 | 2457 | MCS0 | 18 | 17.83 | 30.00 | PASS |
| 11 | 2462 | MCS0 | 11.5 | 11.77 | 30.00 | PASS |

| 802.11nHT_20M Ch1 | | | | | | |
|-------------------|-------------|-----------|-----------|-------------------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | MCS0 | 9.5 | 18.54 | 30.00 | PASS |
| 2 | 2417 | MCS0 | 18 | 24.67 | 30.00 | PASS |
| 6 | 2437 | MCS0 | 17.5 | 24.62 | 30.00 | PASS |
| 10 | 2457 | MCS0 | 18 | 24.55 | 30.00 | PASS |
| 11 | 2462 | MCS0 | 11.5 | 20.50 | 30.00 | PASS |

| 802.11nHT_20M Ch1 | | | | | | |
|-------------------|-------------|-----------|-----------|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | MCS0 | 9.5 | 9.71 | 30.00 | PASS |
| 2 | 2417 | MCS0 | 18 | 17.67 | 30.00 | PASS |
| 6 | 2437 | MCS0 | 17.5 | 17.71 | 30.00 | PASS |
| 10 | 2457 | MCS0 | 18 | 17.76 | 30.00 | PASS |
| 11 | 2462 | MCS0 | 11.5 | 11.65 | 30.00 | PASS |

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| 802.11n_HT20M MIMO | | | | | | | | |
|--------------------|-------------|-----------|-----------|-------------------|-------|-------------------------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Peak Output Power | | Total Peak Output Power (dBm) | Limit (dBm) | RESULT |
| | | | | CH 0 | CH 1 | | | |
| 1 | 2412 | MCS8 | 10 | 19.77 | 19.62 | 22.71 | 29.79 | PASS |
| 2 | 2417 | MCS8 | 18 | 24.80 | 24.42 | 27.62 | 29.79 | PASS |
| 6 | 2437 | MCS8 | 17.5 | 24.71 | 24.39 | 27.56 | 29.79 | PASS |
| 10 | 2457 | MCS8 | 18 | 24.70 | 24.37 | 27.55 | 29.79 | PASS |
| 11 | 2462 | MCS8 | 12 | 21.72 | 21.62 | 24.68 | 29.79 | PASS |

| 802.11n_HT20M MIMO | | | | | | | | |
|--------------------|-------------|-----------|-----------|-------------------------|-------|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Avg. Output Power (dBm) | | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| | | | | CH 0 | CH 1 | | | |
| 1 | 2412 | MCS8 | 10 | 9.84 | 9.74 | 12.89 | 29.79 | PASS |
| 2 | 2417 | MCS8 | 18 | 17.86 | 17.78 | 20.92 | 29.79 | PASS |
| 6 | 2437 | MCS8 | 17.5 | 17.84 | 17.75 | 20.90 | 29.79 | PASS |
| 10 | 2457 | MCS8 | 18 | 17.92 | 17.80 | 20.96 | 29.79 | PASS |
| 11 | 2462 | MCS8 | 12 | 11.90 | 11.74 | 14.92 | 29.79 | PASS |

| 802.11nHT_40M Ch0 | | | | | | |
|-------------------|-------------|-----------|-----------|-------------------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 3 | 2422 | MCS0 | 10.5 | 20.21 | 30.00 | PASS |
| 4 | 2427 | MCS0 | 15.5 | 24.33 | 30.00 | PASS |
| 6 | 2437 | MCS0 | 15.5 | 24.34 | 30.00 | PASS |
| 8 | 2447 | MCS0 | 15.5 | 24.31 | 30.00 | PASS |
| 9 | 2452 | MCS0 | 9.5 | 19.35 | 30.00 | PASS |

| 802.11nHT_40M Ch0 | | | | | | |
|-------------------|-------------|-----------|-----------|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| 3 | 2422 | MCS0 | 10.5 | 10.85 | 30.00 | PASS |
| 4 | 2427 | MCS0 | 15.5 | 15.84 | 30.00 | PASS |
| 6 | 2437 | MCS0 | 15.5 | 15.88 | 30.00 | PASS |
| 8 | 2447 | MCS0 | 15.5 | 15.92 | 30.00 | PASS |
| 9 | 2452 | MCS0 | 9.5 | 9.82 | 30.00 | PASS |

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| 802.11nHT_40M Ch1 | | | | | | |
|-------------------|-------------|-----------|-----------|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 3 | 2422 | MCS0 | 10.5 | 19.85 | 30.00 | PASS |
| 4 | 2427 | MCS0 | 15.5 | 23.99 | 30.00 | PASS |
| 6 | 2437 | MCS0 | 15.5 | 24.01 | 30.00 | PASS |
| 8 | 2447 | MCS0 | 15.5 | 23.97 | 30.00 | PASS |
| 9 | 2452 | MCS0 | 9.5 | 19.07 | 30.00 | PASS |
| 802.11nHT_40M Ch1 | | | | | | |
| CH | Freq. (MHz) | Data Rate | Power set | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| 3 | 2422 | MCS0 | 10.5 | 10.73 | 30.00 | PASS |
| 4 | 2427 | MCS0 | 15.5 | 15.71 | 30.00 | PASS |
| 6 | 2437 | MCS0 | 15.5 | 15.80 | 30.00 | PASS |
| 8 | 2447 | MCS0 | 15.5 | 15.84 | 30.00 | PASS |
| 9 | 2452 | MCS0 | 9.5 | 9.69 | 30.00 | PASS |

| 802.11n_HT40M MIMO | | | | | | | | |
|--------------------|-------------|-----------|-----------|-------------------------|-------|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Peak Output Power | | Total Peak Output Power (dBm) | Limit (dBm) | RESULT |
| | | | | CH 0 | CH 1 | | | |
| 3 | 2422 | MCS8 | 10.5 | 20.80 | 20.62 | 23.72 | 29.79 | PASS |
| 4 | 2427 | MCS8 | 16 | 24.28 | 24.26 | 27.28 | 29.79 | PASS |
| 6 | 2437 | MCS8 | 15.5 | 24.11 | 24.17 | 27.15 | 29.79 | PASS |
| 8 | 2447 | MCS8 | 15.5 | 24.06 | 24.17 | 27.13 | 29.79 | PASS |
| 9 | 2452 | MCS8 | 9 | 19.92 | 19.80 | 22.87 | 29.79 | PASS |
| 802.11n_HT40M MIMO | | | | | | | | |
| CH | Freq. (MHz) | Data Rate | Power set | Avg. Output Power (dBm) | | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| | | | | CH 0 | CH 1 | | | |
| 3 | 2422 | MCS8 | 10.5 | 10.74 | 10.64 | 13.88 | 29.79 | PASS |
| 4 | 2427 | MCS8 | 16 | 15.76 | 15.65 | 18.90 | 29.79 | PASS |
| 6 | 2437 | MCS8 | 15.5 | 15.79 | 15.69 | 18.93 | 29.79 | PASS |
| 8 | 2447 | MCS8 | 15.5 | 15.82 | 15.68 | 18.94 | 29.79 | PASS |
| 9 | 2452 | MCS8 | 9 | 9.82 | 9.66 | 12.93 | 29.79 | PASS |

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| 802.11ac_VHT_20M Ch0 | | | | | | |
|----------------------|-------------|-----------|-----------|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | MCS0 | 9.5 | 21.29 | 30.00 | PASS |
| 2 | 2417 | MCS0 | 18 | 24.85 | 30.00 | PASS |
| 6 | 2437 | MCS0 | 17.5 | 24.75 | 30.00 | PASS |
| 10 | 2457 | MCS0 | 18 | 24.81 | 30.00 | PASS |
| 11 | 2462 | MCS0 | 11.5 | 20.89 | 30.00 | PASS |
| 802.11ac_VHT_20M Ch0 | | | | | | |
| CH | Freq. (MHz) | Data Rate | Power set | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | MCS0 | 9.5 | 9.81 | 30.00 | PASS |
| 2 | 2417 | MCS0 | 18 | 17.77 | 30.00 | PASS |
| 6 | 2437 | MCS0 | 17.5 | 17.79 | 30.00 | PASS |
| 10 | 2457 | MCS0 | 18 | 17.81 | 30.00 | PASS |
| 11 | 2462 | MCS0 | 11.5 | 11.73 | 30.00 | PASS |
| 802.11ac_VHT_20M Ch1 | | | | | | |
| CH | Freq. (MHz) | Data Rate | Power set | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | MCS0 | 9.5 | 20.82 | 30.00 | PASS |
| 2 | 2417 | MCS0 | 18 | 24.51 | 30.00 | PASS |
| 6 | 2437 | MCS0 | 17.5 | 24.34 | 30.00 | PASS |
| 10 | 2457 | MCS0 | 18 | 24.42 | 30.00 | PASS |
| 11 | 2462 | MCS0 | 11.5 | 20.59 | 30.00 | PASS |
| 802.11ac_VHT_20M Ch1 | | | | | | |
| CH | Freq. (MHz) | Data Rate | Power set | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | MCS0 | 9.5 | 9.66 | 30.00 | PASS |
| 2 | 2417 | MCS0 | 18 | 17.63 | 30.00 | PASS |
| 6 | 2437 | MCS0 | 17.5 | 17.61 | 30.00 | PASS |
| 10 | 2457 | MCS0 | 18 | 17.70 | 30.00 | PASS |
| 11 | 2462 | MCS0 | 11.5 | 11.60 | 30.00 | PASS |

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| 802.11ac_VHT20M MIMO | | | | | | | | |
|----------------------|-------------|-----------|-----------|-------------------|-------|-------------------------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Peak Output Power | | Total Peak Output Power (dBm) | Limit (dBm) | RESULT |
| | | | | CH 0 | CH 1 | | | |
| 1 | 2412 | MCS8 | 10 | 19.72 | 19.58 | 22.66 | 29.79 | PASS |
| 2 | 2417 | MCS8 | 18 | 24.73 | 21.34 | 26.37 | 29.79 | PASS |
| 6 | 2437 | MCS8 | 17.5 | 21.66 | 24.32 | 26.20 | 29.79 | PASS |
| 10 | 2457 | MCS8 | 18 | 24.65 | 24.35 | 27.51 | 29.79 | PASS |
| 11 | 2462 | MCS8 | 12 | 21.70 | 21.59 | 24.66 | 29.79 | PASS |

| 802.11ac_VHT20M MIMO | | | | | | | | |
|----------------------|-------------|-----------|-----------|-------------------------|-------|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Avg. Output Power (dBm) | | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| | | | | CH 0 | CH 1 | | | |
| 1 | 2412 | MCS8 | 10 | 9.81 | 9.69 | 12.85 | 29.79 | PASS |
| 2 | 2417 | MCS8 | 18 | 17.79 | 17.69 | 20.84 | 29.79 | PASS |
| 6 | 2437 | MCS8 | 17.5 | 17.81 | 17.72 | 20.87 | 29.79 | PASS |
| 10 | 2457 | MCS8 | 18 | 17.80 | 17.67 | 20.84 | 29.79 | PASS |
| 11 | 2462 | MCS8 | 12 | 11.77 | 11.64 | 14.81 | 29.79 | PASS |

| 802.11ac_VHT_40M Ch0 | | | | | | |
|----------------------|-------------|-----------|-----------|-------------------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 3 | 2422 | MCS0 | 10.5 | 20.11 | 30.00 | PASS |
| 4 | 2427 | MCS0 | 15.5 | 24.27 | 30.00 | PASS |
| 6 | 2437 | MCS0 | 15.5 | 24.30 | 30.00 | PASS |
| 8 | 2447 | MCS0 | 15.5 | 24.24 | 30.00 | PASS |
| 9 | 2452 | MCS0 | 9.5 | 19.25 | 30.00 | PASS |

| 802.11ac_VHT_40M Ch0 | | | | | | |
|----------------------|-------------|-----------|-----------|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| 3 | 2422 | MCS0 | 10.5 | 10.80 | 30.00 | PASS |
| 4 | 2427 | MCS0 | 15.5 | 15.79 | 30.00 | PASS |
| 6 | 2437 | MCS0 | 15.5 | 15.84 | 30.00 | PASS |
| 8 | 2447 | MCS0 | 15.5 | 15.82 | 30.00 | PASS |
| 9 | 2452 | MCS0 | 9.5 | 9.76 | 30.00 | PASS |

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| 802.11ac_VHT_40M Ch1 | | | | | | |
|----------------------|-------------|-----------|-----------|-------------------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 3 | 2422 | MCS0 | 10.5 | 19.71 | 30.00 | PASS |
| 4 | 2427 | MCS0 | 15.5 | 23.85 | 30.00 | PASS |
| 6 | 2437 | MCS0 | 15.5 | 23.94 | 30.00 | PASS |
| 8 | 2447 | MCS0 | 15.5 | 23.85 | 30.00 | PASS |
| 9 | 2452 | MCS0 | 9.5 | 18.86 | 30.00 | PASS |

| 802.11ac_VHT_40M Ch1 | | | | | | |
|----------------------|-------------|-----------|-----------|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| 3 | 2422 | MCS0 | 10.5 | 10.68 | 30.00 | PASS |
| 4 | 2427 | MCS0 | 15.5 | 15.68 | 30.00 | PASS |
| 6 | 2437 | MCS0 | 15.5 | 15.75 | 30.00 | PASS |
| 8 | 2447 | MCS0 | 15.5 | 15.76 | 30.00 | PASS |
| 9 | 2452 | MCS0 | 9.5 | 9.63 | 30.00 | PASS |

| 802.11ac_VHT40M MIMO | | | | | | | | |
|----------------------|-------------|-----------|-----------|-------------------|-------|-------------------------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Peak Output Power | | Total Peak Output Power (dBm) | Limit (dBm) | RESULT |
| | | | | CH 0 | CH 1 | | | |
| 3 | 2422 | MCS8 | 10.5 | 20.72 | 20.57 | 23.66 | 29.79 | PASS |
| 4 | 2427 | MCS8 | 16 | 24.15 | 24.15 | 27.16 | 29.79 | PASS |
| 6 | 2437 | MCS8 | 15.5 | 24.08 | 24.11 | 27.11 | 29.79 | PASS |
| 8 | 2447 | MCS8 | 15.5 | 24.00 | 24.06 | 27.04 | 29.79 | PASS |
| 9 | 2452 | MCS8 | 9 | 19.85 | 19.71 | 22.79 | 29.79 | PASS |

| 802.11ac_VHT40M MIMO | | | | | | | | |
|----------------------|-------------|-----------|-----------|-------------------------|-------|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Avg. Output Power (dBm) | | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| | | | | CH 0 | CH 1 | | | |
| 3 | 2422 | MCS8 | 10.5 | 10.72 | 10.61 | 13.86 | 29.79 | PASS |
| 4 | 2427 | MCS8 | 16 | 15.72 | 15.59 | 18.85 | 29.79 | PASS |
| 6 | 2437 | MCS8 | 15.5 | 15.74 | 15.62 | 18.87 | 29.79 | PASS |
| 8 | 2447 | MCS8 | 15.5 | 15.73 | 15.61 | 18.86 | 29.79 | PASS |
| 9 | 2452 | MCS8 | 9 | 9.75 | 9.63 | 12.88 | 29.79 | PASS |

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| 802.11ax_HE_20M Ch0 | | | | | | | |
|---------------------|-------------|-----------|-----------|-----------|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | RU Config | Power set | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | MCS0 | full | 9.5 | 19.37 | 30.00 | PASS |
| | | | 26/0 | 14 | 20.25 | 30.00 | PASS |
| | | | 52/37 | 14 | 20.33 | 30.00 | PASS |
| | | | 106/53 | 14 | 20.20 | 30.00 | PASS |
| 2 | 2417 | MCS0 | full | 17.5 | 25.00 | 30.00 | PASS |
| 6 | 2437 | MCS0 | full | 17 | 24.91 | 30.00 | PASS |
| 10 | 2457 | MCS0 | full | 17.5 | 24.92 | 30.00 | PASS |
| 11 | 2462 | MCS0 | full | 11.5 | 21.59 | 30.00 | PASS |
| | | | 26/8 | 15 | 21.55 | 30.00 | PASS |
| | | | 52/40 | 15 | 21.48 | 30.00 | PASS |
| | | | 106/54 | 15 | 21.44 | 30.00 | PASS |
| 802.11ax_HE_20M Ch0 | | | | | | | |
| CH | Freq. (MHz) | Data Rate | RU Config | Power set | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | MCS0 | full | 9.5 | 9.80 | 30.00 | PASS |
| | | | 26/0 | 14 | 9.75 | 30.00 | PASS |
| | | | 52/37 | 14 | 9.69 | 30.00 | PASS |
| | | | 106/53 | 14 | 9.72 | 30.00 | PASS |
| 2 | 2417 | MCS0 | full | 17.5 | 17.80 | 30.00 | PASS |
| 6 | 2437 | MCS0 | full | 17 | 17.76 | 30.00 | PASS |
| 10 | 2457 | MCS0 | full | 17.5 | 17.83 | 30.00 | PASS |
| 11 | 2462 | MCS0 | full | 11.5 | 11.84 | 30.00 | PASS |
| | | | 26/8 | 15 | 11.81 | 30.00 | PASS |
| | | | 52/40 | 15 | 11.76 | 30.00 | PASS |
| | | | 106/54 | 15 | 11.79 | 30.00 | PASS |

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| 802.11ax_HE_20M Ch1 | | | | | | | |
|---------------------|-------------|-----------|-----------|-----------|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | RU Config | Power set | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | MCS0 | full | 9.5 | 19.25 | 30.00 | PASS |
| | | | 26/0 | 14 | 20.12 | 30.00 | PASS |
| | | | 52/37 | 14 | 20.23 | 30.00 | PASS |
| | | | 106/53 | 14 | 20.06 | 30.00 | PASS |
| 2 | 2417 | MCS0 | full | 17.5 | 24.62 | 30.00 | PASS |
| 6 | 2437 | MCS0 | full | 17 | 24.57 | 30.00 | PASS |
| 10 | 2457 | MCS0 | full | 17.5 | 24.55 | 30.00 | PASS |
| 11 | 2462 | MCS0 | full | 11.5 | 21.13 | 30.00 | PASS |
| | | | 26/8 | 15 | 21.43 | 30.00 | PASS |
| | | | 52/40 | 15 | 21.35 | 30.00 | PASS |
| | | | 106/54 | 15 | 21.31 | 30.00 | PASS |
| 802.11ax_HE_20M Ch1 | | | | | | | |
| CH | Freq. (MHz) | Data Rate | RU Config | Power set | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | MCS0 | full | 9.5 | 9.63 | 30.00 | PASS |
| | | | 26/0 | 14 | 9.61 | 30.00 | PASS |
| | | | 52/37 | 14 | 9.56 | 30.00 | PASS |
| | | | 106/53 | 14 | 9.59 | 30.00 | PASS |
| 2 | 2417 | MCS0 | full | 17.5 | 17.66 | 30.00 | PASS |
| 6 | 2437 | MCS0 | full | 17 | 17.70 | 30.00 | PASS |
| 10 | 2457 | MCS0 | full | 17.5 | 11.73 | 30.00 | PASS |
| 11 | 2462 | MCS0 | full | 11.5 | 11.66 | 30.00 | PASS |
| | | | 26/8 | 15 | 11.64 | 30.00 | PASS |
| | | | 52/40 | 15 | 11.58 | 30.00 | PASS |
| | | | 106/54 | 15 | 11.61 | 30.00 | PASS |

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| 802.11ax_HE20M MIMO | | | | | | | | | |
|---------------------|-------------|-----------|-----------|-----------|-------------------------|-------|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | RU Config | Power set | Peak Output Power | | Total Peak Output Power (dBm) | Limit (dBm) | RESULT |
| | | | | | CH 0 | CH 1 | | | |
| 1 | 2412 | MCS0 | full | 9.5 | 19.74 | 19.52 | 22.64 | 29.79 | PASS |
| | | | 26/0 | 13.5 | 20.45 | 20.08 | 23.28 | 29.79 | PASS |
| | | | 52/37 | 14 | 20.53 | 20.18 | 23.37 | 29.79 | PASS |
| | | | 106/53 | 14 | 20.39 | 20.02 | 23.22 | 29.79 | PASS |
| 2 | 2417 | MCS0 | full | 17.5 | 24.74 | 24.36 | 27.56 | 29.79 | PASS |
| 6 | 2437 | MCS0 | full | 17.5 | 24.73 | 24.36 | 27.56 | 29.79 | PASS |
| 10 | 2457 | MCS0 | full | 17.5 | 24.65 | 24.36 | 27.52 | 29.79 | PASS |
| 11 | 2462 | MCS0 | full | 11.5 | 21.77 | 21.54 | 24.67 | 29.79 | PASS |
| | | | 26/8 | 15.5 | 21.70 | 21.47 | 24.60 | 29.79 | PASS |
| | | | 52/40 | 15.5 | 21.66 | 21.40 | 24.54 | 29.79 | PASS |
| | | | 106/54 | 15.5 | 21.62 | 21.35 | 24.50 | 29.79 | PASS |
| 802.11ax_HE20M MIMO | | | | | | | | | |
| CH | Freq. (MHz) | Data Rate | RU Config | Power set | Avg. Output Power (dBm) | | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| | | | | | CH 0 | CH 1 | | | |
| 1 | 2412 | MCS0 | full | 9.5 | 9.90 | 9.63 | 12.90 | 29.79 | PASS |
| | | | 26/0 | 13.5 | 9.80 | 9.46 | 12.76 | 29.79 | PASS |
| | | | 52/37 | 14 | 9.85 | 9.55 | 12.83 | 29.79 | PASS |
| | | | 106/53 | 14 | 9.76 | 9.40 | 12.71 | 29.79 | PASS |
| 2 | 2417 | MCS0 | full | 17.5 | 17.82 | 17.69 | 20.89 | 29.79 | PASS |
| 6 | 2437 | MCS0 | full | 17.5 | 17.84 | 17.77 | 20.94 | 29.79 | PASS |
| 10 | 2457 | MCS0 | full | 17.5 | 17.87 | 17.66 | 20.90 | 29.79 | PASS |
| 11 | 2462 | MCS0 | full | 11.5 | 11.87 | 11.64 | 14.89 | 29.79 | PASS |
| | | | 26/8 | 15.5 | 11.80 | 11.54 | 14.80 | 29.79 | PASS |
| | | | 52/40 | 15.5 | 11.76 | 11.45 | 14.74 | 29.79 | PASS |
| | | | 106/54 | 15.5 | 11.67 | 11.38 | 14.66 | 29.79 | PASS |

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| 802.11ax_HE_40M Ch0 | | | | | | | |
|---------------------|-------------|-----------|-----------|-----------|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | RU Config | Power set | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 3 | 2422 | MCS0 | full | 10.5 | 20.80 | 30.00 | PASS |
| | | | 242/61 | 14.5 | 20.75 | 30.00 | PASS |
| 4 | 2427 | MCS0 | full | 15.5 | 24.42 | 30.00 | PASS |
| 6 | 2437 | MCS0 | full | 15 | 24.20 | 30.00 | PASS |
| 8 | 2447 | MCS0 | full | 15 | 24.13 | 30.00 | PASS |
| 9 | 2452 | MCS0 | full | 9.5 | 19.95 | 30.00 | PASS |
| | | | 242/62 | 12 | 19.25 | 30.00 | PASS |
| 802.11ax_HE_40M Ch0 | | | | | | | |
| CH | Freq. (MHz) | Data Rate | RU Config | Power set | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| 3 | 2422 | MCS0 | full | 10.5 | 10.85 | 30.00 | PASS |
| | | | 242/61 | 14.5 | 10.81 | 30.00 | PASS |
| 4 | 2427 | MCS0 | full | 15.5 | 15.87 | 30.00 | PASS |
| 6 | 2437 | MCS0 | full | 15 | 15.82 | 30.00 | PASS |
| 8 | 2447 | MCS0 | full | 15 | 15.91 | 30.00 | PASS |
| 9 | 2452 | MCS0 | full | 9.5 | 9.83 | 30.00 | PASS |
| | | | 242/62 | 12 | 8.28 | 30.00 | PASS |

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| 802.11ax_HE_40M Ch1 | | | | | | | |
|---------------------|-------------|-----------|-----------|-----------|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | RU Config | Power set | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 3 | 2422 | MCS0 | full | 10.5 | 20.62 | 30.00 | PASS |
| | | | 242/61 | 14.5 | 20.59 | 30.00 | PASS |
| 4 | 2427 | MCS0 | full | 15.5 | 24.10 | 30.00 | PASS |
| 6 | 2437 | MCS0 | full | 15 | 23.82 | 30.00 | PASS |
| 8 | 2447 | MCS0 | full | 15 | 23.80 | 30.00 | PASS |
| 9 | 2452 | MCS0 | full | 9.5 | 19.83 | 30.00 | PASS |
| | | | 242/62 | 12 | 19.14 | 30.00 | PASS |
| 802.11ax_HE_40M Ch1 | | | | | | | |
| CH | Freq. (MHz) | Data Rate | RU Config | Power set | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| 3 | 2422 | MCS0 | full | 10.5 | 10.63 | 30.00 | PASS |
| | | | 242/61 | 14.5 | 10.59 | 30.00 | PASS |
| 4 | 2427 | MCS0 | full | 15.5 | 15.75 | 30.00 | PASS |
| 6 | 2437 | MCS0 | full | 15 | 15.73 | 30.00 | PASS |
| 8 | 2447 | MCS0 | full | 15 | 15.87 | 30.00 | PASS |
| 9 | 2452 | MCS0 | full | 9.5 | 9.71 | 30.00 | PASS |
| | | | 242/62 | 12 | 8.13 | 30.00 | PASS |

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| 802.11ax_HE40M MIMO | | | | | | | | | |
|---------------------|-------------|-----------|-----------|-----------|-------------------|-------|-------------------------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | RU Config | Power set | Peak Output Power | | Total Peak Output Power (dBm) | Limit (dBm) | RESULT |
| | | | | | CH 0 | CH 1 | | | |
| 3 | 2422 | MCS0 | full | 10.5 | 21.20 | 20.89 | 24.06 | 29.79 | PASS |
| | | | 242/6 | 14 | 21.11 | 20.75 | 23.94 | 29.79 | PASS |
| 4 | 2427 | MCS0 | full | 15.5 | 24.23 | 24.19 | 27.22 | 29.79 | PASS |
| 6 | 2437 | MCS0 | full | 15 | 24.02 | 23.86 | 26.95 | 29.79 | PASS |
| 8 | 2447 | MCS0 | full | 15 | 23.87 | 23.97 | 26.93 | 29.79 | PASS |
| 9 | 2452 | MCS0 | full | 9 | 19.71 | 19.59 | 22.66 | 29.79 | PASS |
| | | | 242/6 | 11.5 | 19.45 | 19.16 | 22.32 | 29.79 | PASS |

| 802.11ax_HE40M MIMO | | | | | | | | | |
|---------------------|-------------|-----------|-----------|-----------|-------------------------|-------|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | RU Config | Power set | Avg. Output Power (dBm) | | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| | | | | | CH 0 | CH 1 | | | |
| 3 | 2422 | MCS0 | full | 10.5 | 10.81 | 10.62 | 13.94 | 29.79 | PASS |
| | | | 242/6 | 14 | 10.72 | 10.53 | 13.85 | 29.79 | PASS |
| 4 | 2427 | MCS0 | full | 15.5 | 15.76 | 15.71 | 18.96 | 29.79 | PASS |
| 6 | 2437 | MCS0 | full | 15 | 15.70 | 15.65 | 18.90 | 29.79 | PASS |
| 8 | 2447 | MCS0 | full | 15 | 15.68 | 15.81 | 18.97 | 29.79 | PASS |
| 9 | 2452 | MCS0 | full | 9 | 9.84 | 9.68 | 12.98 | 29.79 | PASS |
| | | | 242/6 | 11.5 | 8.21 | 8.09 | 11.37 | 29.79 | PASS |

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| 802.11b Ch0 | | | | | | | |
|-------------|-------------|-----------|-------------------------|--------------------|------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 1 | 15.76 | 3.20 | 18.96 | 36 | PASS |
| 2 | 2417 | 1 | 19.88 | 3.20 | 23.08 | 36 | PASS |
| 6 | 2437 | 1 | 19.78 | 3.20 | 22.98 | 36 | PASS |
| 10 | 2457 | 1 | 19.84 | 3.20 | 23.04 | 36 | PASS |
| 11 | 2462 | 1 | 15.74 | 3.20 | 18.94 | 36 | PASS |

| 802.11b Ch1 | | | | | | | |
|-------------|-------------|-----------|-------------------------|--------------------|------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 1 | 15.69 | 3.20 | 18.89 | 36 | PASS |
| 2 | 2417 | 1 | 19.76 | 3.20 | 22.96 | 36 | PASS |
| 6 | 2437 | 1 | 19.63 | 3.20 | 22.83 | 36 | PASS |
| 10 | 2457 | 1 | 19.73 | 3.20 | 22.93 | 36 | PASS |
| 11 | 2462 | 1 | 15.63 | 3.20 | 18.83 | 36 | PASS |

| 802.11b_2TX | | | | | | | | | |
|-------------|-------------|-----------|-------------------|-------|-------------------------------|--------------------|------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power | | Total Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| | | | CH 0 | CH 1 | | | | | |
| 1 | 2412 | 1 | 15.85 | 15.68 | 18.79 | 6.21 | 25.00 | 36 | PASS |
| 2 | 2417 | 1 | 20.06 | 19.72 | 22.91 | 6.21 | 29.12 | 36 | PASS |
| 6 | 2437 | 1 | 19.93 | 19.71 | 22.84 | 6.21 | 29.05 | 36 | PASS |
| 10 | 2457 | 1 | 19.96 | 19.80 | 22.90 | 6.21 | 29.11 | 36 | PASS |
| 11 | 2462 | 1 | 15.91 | 15.75 | 18.85 | 6.21 | 25.06 | 36 | PASS |

| 802.11g Ch0 | | | | | | | |
|-------------|-------------|-----------|-------------------------|--------------------|------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 6 | 11.83 | 3.20 | 15.03 | 36 | PASS |
| 2 | 2417 | 6 | 18.82 | 3.20 | 22.02 | 36 | PASS |
| 6 | 2437 | 6 | 18.79 | 3.20 | 21.99 | 36 | PASS |
| 10 | 2457 | 6 | 18.76 | 3.20 | 21.96 | 36 | PASS |
| 11 | 2462 | 6 | 11.77 | 3.20 | 14.97 | 36 | PASS |

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| 802.11g Ch1 | | | | | | | |
|-------------|-------------|-----------|-------------------------|--------------------|------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 6 | 11.69 | 3.20 | 14.89 | 36 | PASS |
| 2 | 2417 | 6 | 18.70 | 3.20 | 21.90 | 36 | PASS |
| 6 | 2437 | 6 | 18.66 | 3.20 | 21.86 | 36 | PASS |
| 10 | 2457 | 6 | 18.64 | 3.20 | 21.84 | 36 | PASS |
| 11 | 2462 | 6 | 11.65 | 3.20 | 14.85 | 36 | PASS |

| 802.11g_2TX | | | | | | | | | |
|-------------|-------------|-----------|-------------------|-------|-------------------------------|--------------------|--------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power | | Total Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| | | | CH 0 | CH 1 | | | | | |
| 1 | 2412 | 6 | 11.87 | 11.73 | 14.86 | 6.21 | 21.07 | 36 | PASS |
| 2 | 2417 | 6 | 18.85 | 18.70 | 21.84 | 6.21 | 28.05 | 36 | PASS |
| 6 | 2437 | 6 | 18.89 | 18.75 | 21.88 | 6.21 | 28.09 | 36 | PASS |
| 10 | 2457 | 6 | 19.03 | 18.67 | 21.91 | 6.21 | 28.12 | 36 | PASS |
| 11 | 2462 | 6 | 11.84 | 11.71 | 14.84 | 6.21 | 21.05 | 36 | PASS |

| 802.11nHT_20M Ch0 | | | | | | | |
|-------------------|-------------|-----------|-------------------------|--------------------|------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | MCS0 | 9.84 | 3.20 | 13.04 | 36 | PASS |
| 2 | 2417 | MCS0 | 17.80 | 3.20 | 21.00 | 36 | PASS |
| 6 | 2437 | MCS0 | 17.86 | 3.20 | 21.06 | 36 | PASS |
| 10 | 2457 | MCS0 | 17.83 | 3.20 | 21.03 | 36 | PASS |
| 11 | 2462 | MCS0 | 11.77 | 3.20 | 14.97 | 36 | PASS |

| 802.11nHT_20M Ch1 | | | | | | | |
|-------------------|-------------|-----------|-------------------------|--------------------|------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | MCS0 | 9.71 | 3.20 | 12.91 | 36 | PASS |
| 2 | 2417 | MCS0 | 17.67 | 3.20 | 20.87 | 36 | PASS |
| 6 | 2437 | MCS0 | 17.71 | 3.20 | 20.91 | 36 | PASS |
| 10 | 2457 | MCS0 | 17.76 | 3.20 | 20.96 | 36 | PASS |
| 11 | 2462 | MCS0 | 11.65 | 3.20 | 14.85 | 36 | PASS |

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| 802.11n_HT20M MIMO | | | | | | | | | |
|--------------------|-------------|-----------|-------------------|-------|-------------------------------|--------------------|--------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power | | Total Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| | | | CH 0 | CH 1 | | | | | |
| 1 | 2412 | MCS8 | 9.84 | 9.74 | 12.89 | 6.21 | 19.10 | 36 | PASS |
| 2 | 2417 | MCS8 | 17.86 | 17.78 | 20.92 | 6.21 | 27.13 | 36 | PASS |
| 6 | 2437 | MCS8 | 17.84 | 17.75 | 20.90 | 6.21 | 27.11 | 36 | PASS |
| 10 | 2457 | MCS8 | 17.92 | 17.80 | 20.96 | 6.21 | 27.17 | 36 | PASS |
| 11 | 2462 | MCS8 | 11.90 | 11.74 | 14.92 | 6.21 | 21.13 | 36 | PASS |

| 802.11nHT_40M Ch0 | | | | | | | | |
|-------------------|-------------|-----------|-------------------------|--------------------|------------|-------------|--------|--|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT | |
| 3 | 2422 | MCS0 | 10.85 | 3.20 | 14.05 | 36 | PASS | |
| 4 | 2427 | MCS0 | 15.84 | 3.20 | 19.04 | 36 | PASS | |
| 6 | 2437 | MCS0 | 15.88 | 3.20 | 19.08 | 36 | PASS | |
| 8 | 2447 | MCS0 | 15.92 | 3.20 | 19.12 | 36 | PASS | |
| 9 | 2452 | MCS0 | 9.82 | 3.20 | 13.02 | 36 | PASS | |

| 802.11nHT_40M Ch1 | | | | | | | | |
|-------------------|-------------|-----------|-------------------------|--------------------|------------|-------------|--------|--|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT | |
| 3 | 2422 | MCS0 | 10.73 | 3.20 | 13.93 | 36 | PASS | |
| 4 | 2427 | MCS0 | 15.71 | 3.20 | 18.91 | 36 | PASS | |
| 6 | 2437 | MCS0 | 15.80 | 3.20 | 19.00 | 36 | PASS | |
| 8 | 2447 | MCS0 | 15.84 | 3.20 | 19.04 | 36 | PASS | |
| 9 | 2452 | MCS0 | 9.69 | 3.20 | 12.89 | 36 | PASS | |

| 802.11n_HT40M MIMO | | | | | | | | | |
|--------------------|-------------|-----------|-------------------|-------|-------------------------------|--------------------|--------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power | | Total Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| | | | CH 0 | CH 1 | | | | | |
| 3 | 2422 | MCS8 | 10.74 | 10.64 | 13.88 | 6.21 | 20.09 | 36 | PASS |
| 4 | 2427 | MCS8 | 15.76 | 15.65 | 18.90 | 6.21 | 25.11 | 36 | PASS |
| 6 | 2437 | MCS8 | 15.79 | 15.69 | 18.93 | 6.21 | 25.14 | 36 | PASS |
| 8 | 2447 | MCS8 | 15.82 | 15.68 | 18.94 | 6.21 | 25.15 | 36 | PASS |
| 9 | 2452 | MCS8 | 9.82 | 9.66 | 12.93 | 6.21 | 19.14 | 36 | PASS |

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| 802.11ac_VHT_20M Ch0 | | | | | | | |
|----------------------|-------------|-----------|-------------------------|--------------------|------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | MCS0 | 9.81 | 3.20 | 13.01 | 36 | PASS |
| 2 | 2417 | MCS0 | 17.77 | 3.20 | 20.97 | 36 | PASS |
| 6 | 2437 | MCS0 | 17.79 | 3.20 | 20.99 | 36 | PASS |
| 10 | 2457 | MCS0 | 17.81 | 3.20 | 21.01 | 36 | PASS |
| 11 | 2462 | MCS0 | 11.73 | 3.20 | 14.93 | 36 | PASS |

| 802.11ac_VHT_20M Ch1 | | | | | | | |
|----------------------|-------------|-----------|-------------------------|--------------------|------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | MCS0 | 9.66 | 3.20 | 12.86 | 36 | PASS |
| 2 | 2417 | MCS0 | 17.63 | 3.20 | 20.83 | 36 | PASS |
| 6 | 2437 | MCS0 | 17.61 | 3.20 | 20.81 | 36 | PASS |
| 10 | 2457 | MCS0 | 17.70 | 3.20 | 20.90 | 36 | PASS |
| 11 | 2462 | MCS0 | 11.60 | 3.20 | 14.80 | 36 | PASS |

| 802.11ac_VHT20M MIMO | | | | | | | | | |
|----------------------|-------------|-----------|-------------------|-------|-------------------------------|--------------------|--------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power | | Total Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| | | | CH 0 | CH 1 | | | | | |
| 1 | 2412 | MCS8 | 9.81 | 9.69 | 12.85 | 6.21 | 19.06 | 36 | PASS |
| 2 | 2417 | MCS8 | 17.79 | 17.69 | 20.84 | 6.21 | 27.05 | 36 | PASS |
| 6 | 2437 | MCS8 | 17.81 | 17.72 | 20.87 | 6.21 | 27.08 | 36 | PASS |
| 10 | 2457 | MCS8 | 17.80 | 17.67 | 20.84 | 6.21 | 27.05 | 36 | PASS |
| 11 | 2462 | MCS8 | 11.77 | 11.64 | 14.81 | 6.21 | 21.02 | 36 | PASS |

| 802.11ac_VHT_40M Ch0 | | | | | | | |
|----------------------|-------------|-----------|-------------------------|--------------------|------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| 3 | 2422 | MCS0 | 10.80 | 3.20 | 14.00 | 36 | PASS |
| 4 | 2427 | MCS0 | 15.79 | 3.20 | 18.99 | 36 | PASS |
| 6 | 2437 | MCS0 | 15.84 | 3.20 | 19.04 | 36 | PASS |
| 8 | 2447 | MCS0 | 15.82 | 3.20 | 19.02 | 36 | PASS |
| 9 | 2452 | MCS0 | 9.76 | 3.20 | 12.96 | 36 | PASS |

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| 802.11ac_VHT_40M Ch1 | | | | | | | |
|----------------------|-------------|-----------|-------------------------|--------------------|------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| 3 | 2422 | MCS0 | 10.68 | 3.20 | 13.88 | 36 | PASS |
| 4 | 2427 | MCS0 | 15.68 | 3.20 | 18.88 | 36 | PASS |
| 6 | 2437 | MCS0 | 15.75 | 3.20 | 18.95 | 36 | PASS |
| 8 | 2447 | MCS0 | 15.76 | 3.20 | 18.96 | 36 | PASS |
| 9 | 2452 | MCS0 | 9.63 | 3.20 | 12.83 | 36 | PASS |

| 802.11ac_VHT40M MIMO | | | | | | | | | |
|----------------------|-------------|-----------|-------------------|-------|-------------------------------|--------------------|--------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power | | Total Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| | | | CH 0 | CH 1 | | | | | |
| 3 | 2422 | MCS8 | 10.72 | 10.61 | 13.86 | 6.21 | 20.07 | 36 | PASS |
| 4 | 2427 | MCS8 | 15.72 | 15.59 | 18.85 | 6.21 | 25.06 | 36 | PASS |
| 6 | 2437 | MCS8 | 15.74 | 15.62 | 18.87 | 6.21 | 25.08 | 36 | PASS |
| 8 | 2447 | MCS8 | 15.73 | 15.61 | 18.86 | 6.21 | 25.07 | 36 | PASS |
| 9 | 2452 | MCS8 | 9.75 | 9.63 | 12.88 | 6.21 | 19.09 | 36 | PASS |

| 802.11ax_HE_20M Ch0 | | | | | | | | |
|---------------------|-------------|-----------|-----------|-------------------------|--------------------|------------|-------|--------|
| CH | Freq. (MHz) | Data Rate | RU Config | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit | RESULT |
| 1 | 2412 | MCS0 | full | 9.80 | 3.20 | 13.00 | 36 | PASS |
| | | | 26/0 | 9.75 | 3.20 | 12.95 | 36 | PASS |
| | | | 52/37 | 9.69 | 3.20 | 12.89 | 36 | PASS |
| | | | 106/53 | 9.72 | 3.20 | 12.92 | 36 | PASS |
| 2 | 2417 | MCS0 | full | 17.80 | 3.20 | 21.00 | 36 | PASS |
| 6 | 2437 | MCS0 | full | 17.76 | 3.20 | 20.96 | 36 | PASS |
| 10 | 2457 | MCS0 | full | 17.83 | 3.20 | 21.03 | 36 | PASS |
| 11 | 2462 | MCS0 | full | 11.84 | 3.20 | 15.04 | 36 | PASS |
| | | | 26/8 | 11.81 | 3.20 | 15.01 | 36 | PASS |
| | | | 52/40 | 11.76 | 3.20 | 14.96 | 36 | PASS |
| | | | 106/54 | 11.79 | 3.20 | 14.99 | 36 | PASS |

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| 802.11ax_HE_20M Ch1 | | | | | | | | |
|---------------------|-------------|-----------|-----------|-------------------------|--------------------|------------|-------|--------|
| CH | Freq. (MHz) | Data Rate | RU Config | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit | RESULT |
| 1 | 2412 | MCS0 | full | 9.63 | 3.20 | 12.83 | 36 | PASS |
| | | | 26/0 | 9.61 | 3.20 | 12.81 | 36 | PASS |
| | | | 52/37 | 9.56 | 3.20 | 12.76 | 36 | PASS |
| | | | 106/53 | 9.59 | 3.20 | 12.79 | 36 | PASS |
| 2 | 2417 | MCS0 | full | 17.66 | 3.20 | 20.86 | 36 | PASS |
| 6 | 2437 | MCS0 | full | 17.70 | 3.20 | 20.90 | 36 | PASS |
| 10 | 2457 | MCS0 | full | 11.73 | 3.20 | 14.93 | 36 | PASS |
| 11 | 2462 | MCS0 | full | 11.66 | 3.20 | 14.86 | 36 | PASS |
| | | | 26/8 | 11.64 | 3.20 | 14.84 | 36 | PASS |
| | | | 52/40 | 11.58 | 3.20 | 14.78 | 36 | PASS |
| | | | 106/54 | 11.61 | 3.20 | 14.81 | 36 | PASS |

| 802.11ax_HE20M MIMO | | | | | | | | | | |
|---------------------|-------------|-----------|-----------|-------------------|-------|-------------------------------|--------------------|------------|-------|--------|
| CH | Freq. (MHz) | Data Rate | RU Config | Avg. Output Power | | Total Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit | RESULT |
| | | | | CH 0 | CH 1 | | | | | |
| 1 | 2412 | MCS0 | full | 9.90 | 9.63 | 12.90 | 6.21 | 19.11 | 36 | PASS |
| | | | 26/0 | 9.80 | 9.46 | 12.76 | 6.21 | 18.97 | 36 | PASS |
| | | | 52/37 | 9.85 | 9.55 | 12.83 | 6.21 | 19.04 | 36 | PASS |
| | | | 106/53 | 9.76 | 9.40 | 12.71 | 6.21 | 18.92 | 36 | PASS |
| 2 | 2417 | MCS0 | full | 17.82 | 17.69 | 20.89 | 6.21 | 27.10 | 36 | PASS |
| 6 | 2437 | MCS0 | full | 17.84 | 17.77 | 20.94 | 6.21 | 27.15 | 36 | PASS |
| 10 | 2457 | MCS0 | full | 17.87 | 17.66 | 20.90 | 6.21 | 27.11 | 36 | PASS |
| 11 | 2462 | MCS0 | full | 11.87 | 11.64 | 14.89 | 6.21 | 21.10 | 36 | PASS |
| | | | 26/8 | 11.80 | 11.54 | 14.80 | 6.21 | 21.01 | 36 | PASS |
| | | | 52/40 | 11.76 | 11.45 | 14.74 | 6.21 | 20.95 | 36 | PASS |
| | | | 106/54 | 11.67 | 11.38 | 14.66 | 6.21 | 20.87 | 36 | PASS |

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| 802.11ax_HE_40M Ch0 | | | | | | | | |
|---------------------|-------------|-----------|-----------|-------------------------|--------------------|------------|-------|--------|
| CH | Freq. (MHz) | Data Rate | RU Config | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit | RESULT |
| 3 | 2422 | MCS0 | full | 10.85 | 3.20 | 14.05 | 36 | PASS |
| | | | 242/61 | 10.81 | 3.20 | 14.01 | 36 | PASS |
| 4 | 2427 | MCS0 | full | 15.87 | 3.20 | 19.07 | 36 | PASS |
| 6 | 2437 | MCS0 | full | 15.82 | 3.20 | 19.02 | 36 | PASS |
| 8 | 2447 | MCS0 | full | 15.91 | 3.20 | 19.11 | 36 | PASS |
| 9 | 2452 | MCS0 | full | 9.83 | 3.20 | 13.03 | 36 | PASS |
| | | | 242/62 | 8.28 | 3.20 | 11.48 | 36 | PASS |

| 802.11ax_HE_40M Ch1 | | | | | | | | |
|---------------------|-------------|-----------|-----------|-------------------------|--------------------|------------|-------|--------|
| CH | Freq. (MHz) | Data Rate | RU Config | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit | RESULT |
| 3 | 2422 | MCS0 | full | 10.63 | 3.20 | 13.83 | 36 | PASS |
| | | | 242/61 | 10.59 | 3.20 | 13.79 | 36 | PASS |
| 4 | 2427 | MCS0 | full | 15.75 | 3.20 | 18.95 | 36 | PASS |
| 6 | 2437 | MCS0 | full | 15.73 | 3.20 | 18.93 | 36 | PASS |
| 8 | 2447 | MCS0 | full | 15.87 | 3.20 | 19.07 | 36 | PASS |
| 9 | 2452 | MCS0 | full | 9.71 | 3.20 | 12.91 | 36 | PASS |
| | | | 242/62 | 8.13 | 3.20 | 11.33 | 36 | PASS |

| 802.11ax_HE40M MIMO | | | | | | | | | | |
|---------------------|-------------|-----------|-----------|-------------------|-------|-------------------------------|--------------------|--------------|-------|--------|
| CH | Freq. (MHz) | Data Rate | RU Config | Avg. Output Power | | Total Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit | RESULT |
| | | | | CH 0 | CH 1 | | | | | |
| 3 | 2422 | MCS0 | full | 10.81 | 10.62 | 13.94 | 6.21 | 20.15 | 36 | PASS |
| | | | 242/61 | 10.72 | 10.53 | 13.85 | 6.21 | 20.06 | 36 | PASS |
| 4 | 2427 | MCS0 | full | 15.76 | 15.71 | 18.96 | 6.21 | 25.17 | 36 | PASS |
| 6 | 2437 | MCS0 | full | 15.70 | 15.65 | 18.90 | 6.21 | 25.11 | 36 | PASS |
| 8 | 2447 | MCS0 | full | 15.68 | 15.81 | 18.97 | 6.21 | 25.18 | 36 | PASS |
| 9 | 2452 | MCS0 | full | 9.84 | 9.68 | 12.98 | 6.21 | 19.19 | 36 | PASS |
| | | | 242/62 | 8.21 | 8.09 | 11.37 | 6.21 | 17.58 | 36 | PASS |

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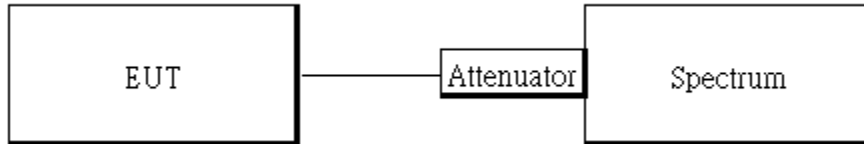
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9 EMISSION BANDWIDTH MEASUREMENT

9.1 Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz.

9.2 Test Setup



9.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set the spectrum analyzer as
RBW= 100kHz ,
VBW = 3 X RBW,
Span= 2 to 5 times of the OBW,
Sweep=auto,
Detector = Peak, and Max hold for -6dB Bandwidth test.
5. Set the spectrum analyzer as
RBW= 1 % to 5% of 99% Bandwidth ,
VBW ≥ 3 X RBW,
Span= large enough to capture all products of the modulation process,
Sweep=auto,
Detector = Peak, and Max hold for 99% Bandwidth test.
6. Turn on the 99% bandwidth function, max reading.
7. Repeat above procedures until all test default channel is completed

9.4 6dB Bandwidth

802.11b Ch0

| Freq. (MHz) | 6dB BW (kHz) | Limit (kHz) | Result |
|-------------|-----------------|-------------|--------|
| 2412 | 10090.00 | ≥ 500 | PASS |
| 2437 | 10090.00 | ≥ 500 | PASS |
| 2462 | 10100.00 | ≥ 500 | PASS |

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802.11b Ch1

| Freq. (MHz) | 6dB BW (kHz) | Limit (kHz) | Result |
|-------------|--------------|-------------|--------|
| 2412 | 10100.00 | ≥ 500 | PASS |
| 2437 | 10100.00 | ≥ 500 | PASS |
| 2462 | 10100.00 | ≥ 500 | PASS |

802.11g Ch0

| Freq. (MHz) | 6dB BW (kHz) | Limit (kHz) | Result |
|-------------|--------------|-------------|--------|
| 2412 | 16400.00 | ≥ 500 | PASS |
| 2437 | 16400.00 | ≥ 500 | PASS |
| 2462 | 16410.00 | ≥ 500 | PASS |

802.11g Ch1

| Freq. (MHz) | 6dB BW (kHz) | Limit (kHz) | Result |
|-------------|--------------|-------------|--------|
| 2412 | 16390.00 | ≥ 500 | PASS |
| 2437 | 16400.00 | ≥ 500 | PASS |
| 2462 | 16400.00 | ≥ 500 | PASS |

802.11nHT_20M Ch0

| Freq. (MHz) | 6dB BW (kHz) | Limit (kHz) | Result |
|-------------|--------------|-------------|--------|
| 2412 | 17330.00 | ≥ 500 | PASS |
| 2437 | 17520.00 | ≥ 500 | PASS |
| 2462 | 17550.00 | ≥ 500 | PASS |

802.11nHT_20M Ch1

| Freq. (MHz) | 6dB BW (kHz) | Limit (kHz) | Result |
|-------------|--------------|-------------|--------|
| 2412 | 17570.00 | ≥ 500 | PASS |
| 2437 | 17600.00 | ≥ 500 | PASS |
| 2462 | 17590.00 | ≥ 500 | PASS |

802.11nHT_40M Ch0

| Freq. (MHz) | 6dB BW (kHz) | Limit (kHz) | Result |
|-------------|--------------|-------------|--------|
| 2422 | 35760.00 | ≥ 500 | PASS |
| 2437 | 35720.00 | ≥ 500 | PASS |
| 2452 | 35540.00 | ≥ 500 | PASS |

802.11nHT_40M Ch1

| Freq. (MHz) | 6dB BW (kHz) | Limit (kHz) | Result |
|-------------|--------------|-------------|--------|
| 2422 | 35510.00 | ≥ 500 | PASS |
| 2437 | 35500.00 | ≥ 500 | PASS |
| 2452 | 35360.00 | ≥ 500 | PASS |

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802.11ax_HE_20M Ch0

| Freq. (MHz) | RU Config | 6dB BW (kHz) | Limit (kHz) | Result |
|-------------|-----------|-----------------|-------------|--------|
| 2412 | full | 18400.00 | ≥ 500 | PASS |
| 2412 | 26/0 | 2014.00 | ≥ 500 | PASS |
| 2437 | full | 18430.00 | ≥ 500 | PASS |
| 2462 | full | 18560.00 | ≥ 500 | PASS |

802.11ax_HE_20M Ch1

| Freq. (MHz) | RU Config | 6dB BW (kHz) | Limit (kHz) | Result |
|-------------|-----------|-----------------|-------------|--------|
| 2412 | full | 18220.00 | ≥ 500 | PASS |
| 2412 | 26/0 | 2023.00 | ≥ 500 | PASS |
| 2437 | full | 18360.00 | ≥ 500 | PASS |
| 2462 | full | 18250.00 | ≥ 500 | PASS |

802.11ax_HE_40M Ch0

| Freq. (MHz) | RU Config | 6dB BW (kHz) | Limit (kHz) | Result |
|-------------|-----------|-----------------|-------------|--------|
| 2422 | full | 36950.00 | ≥ 500 | PASS |
| 2437 | full | 36820.00 | ≥ 500 | PASS |
| 2452 | full | 37040.00 | ≥ 500 | PASS |

802.11ax_HE_40M Ch1

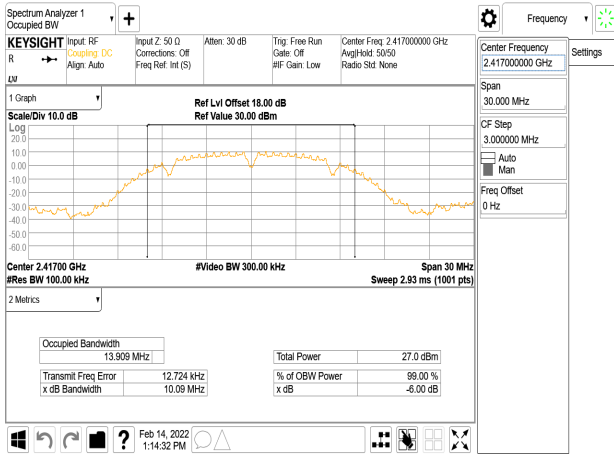
| Freq. (MHz) | RU Config | 6dB BW (kHz) | Limit (kHz) | Result |
|-------------|-----------|-----------------|-------------|--------|
| 2422 | full | 36970.00 | ≥ 500 | PASS |
| 2437 | full | 36730.00 | ≥ 500 | PASS |
| 2452 | full | 36590.00 | ≥ 500 | PASS |

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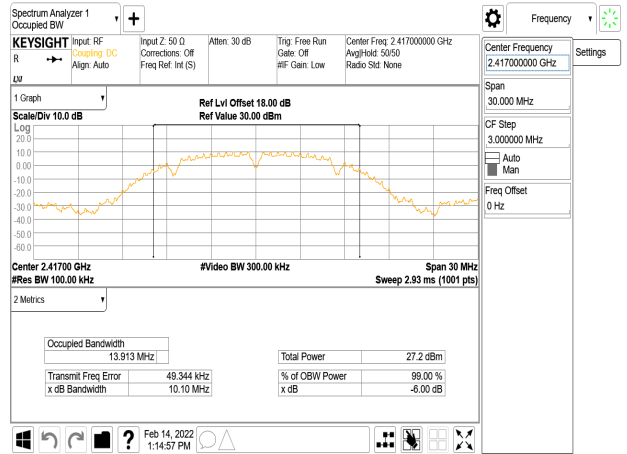
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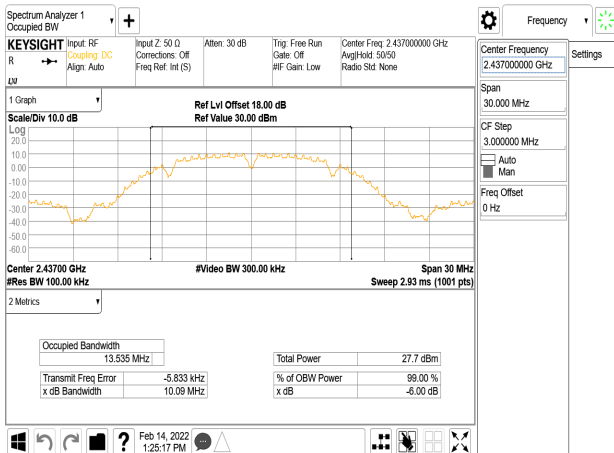
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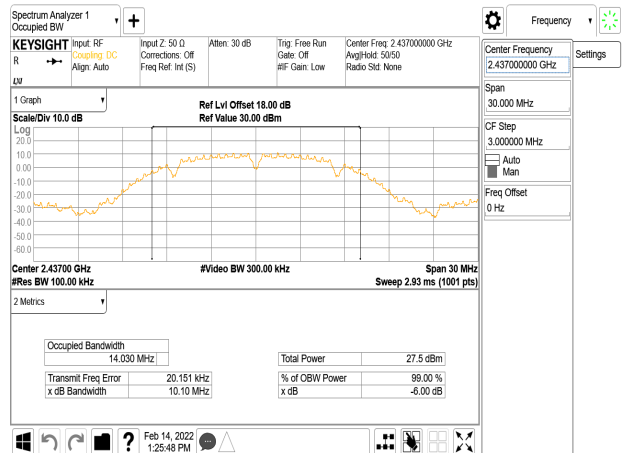
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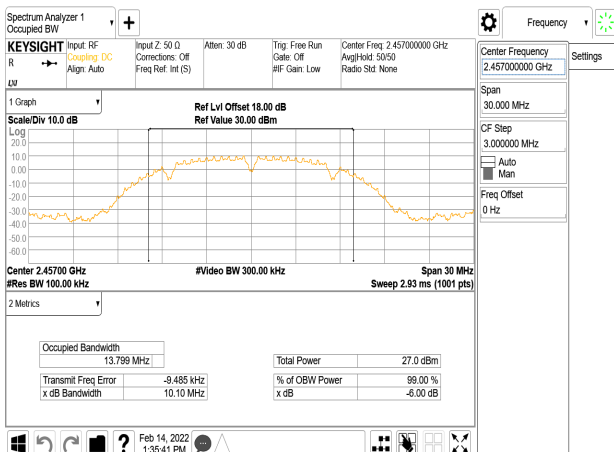
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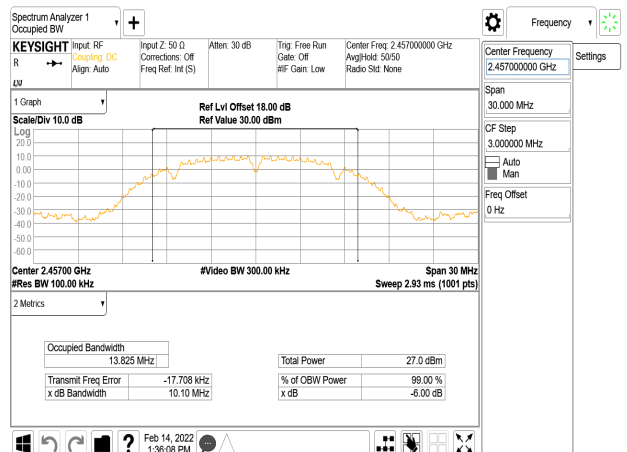
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802.11b_20MHz_Chain0_2462MHz



802.11b_20MHz_Chain1_2462MHz

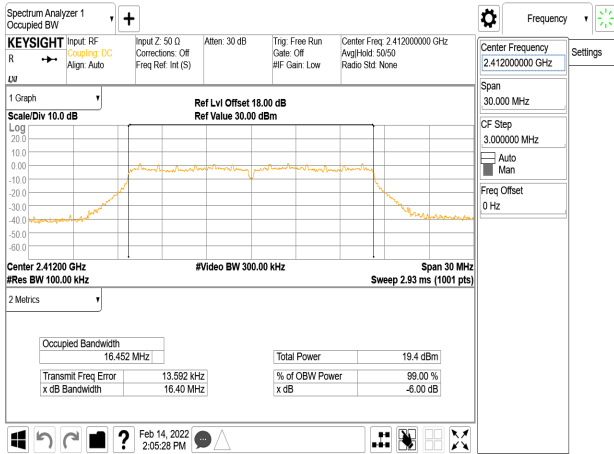


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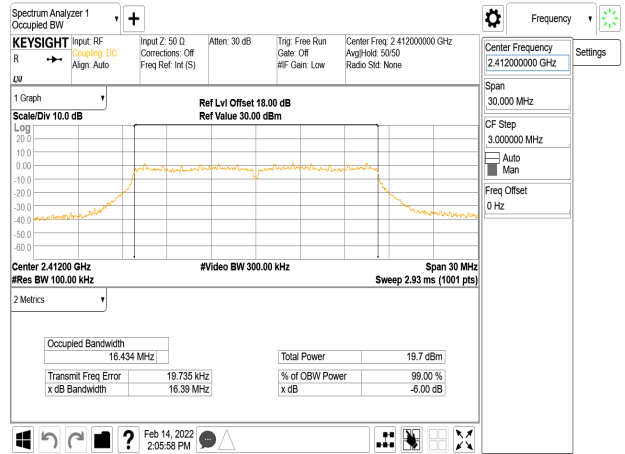
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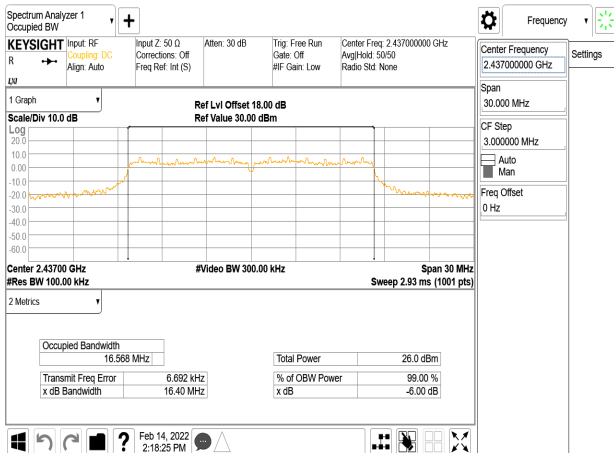
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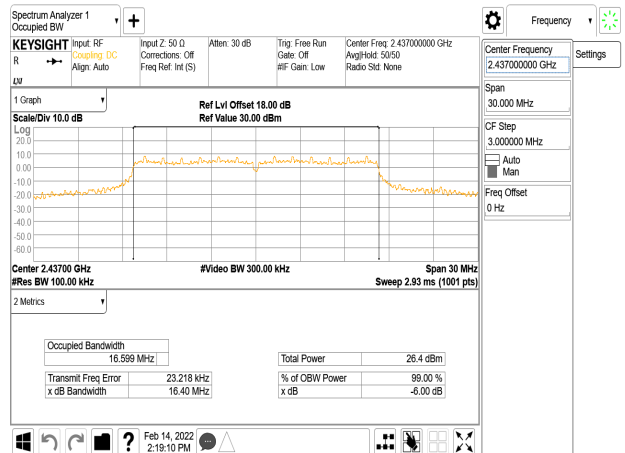
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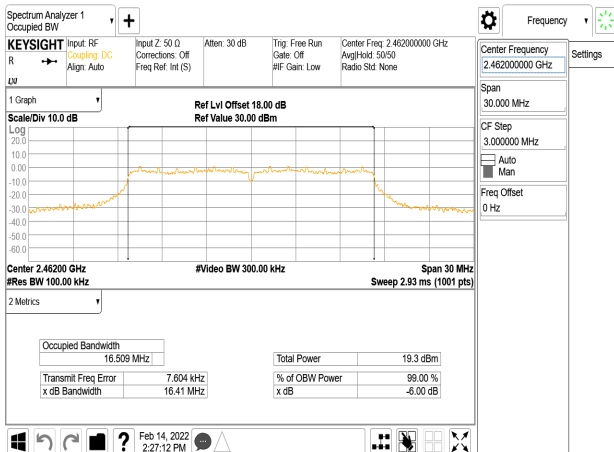
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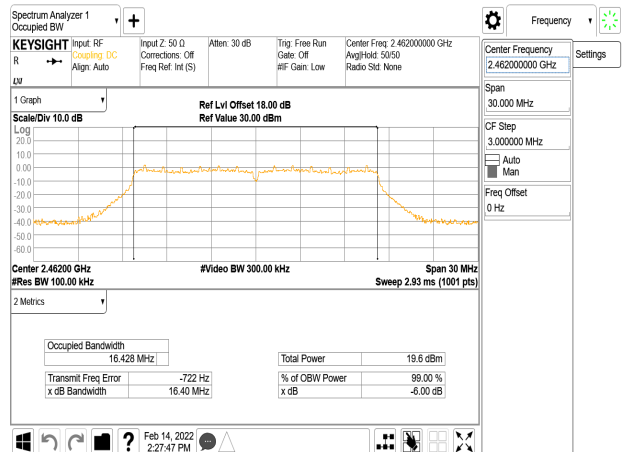
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802.11g_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain1_2462MHz

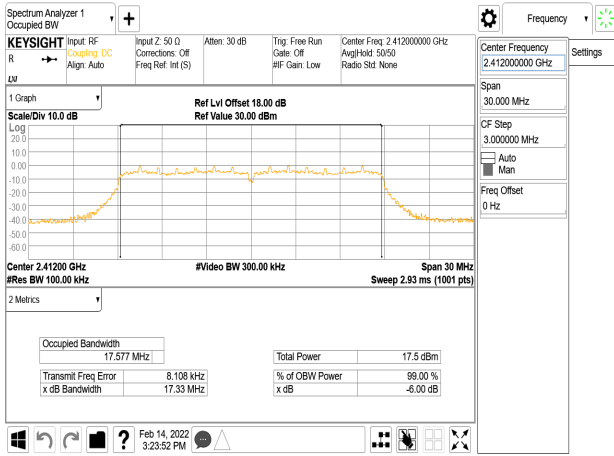


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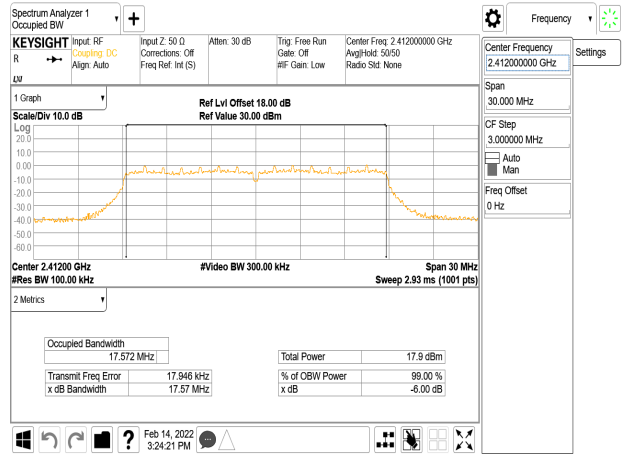
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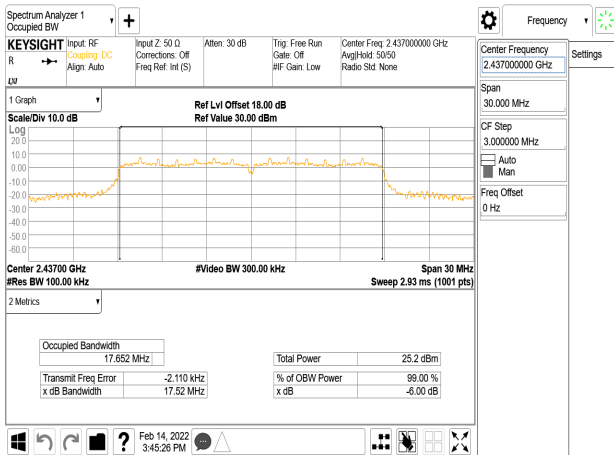
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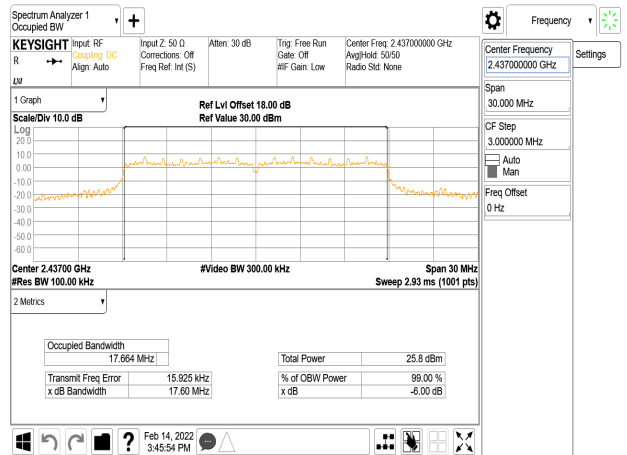
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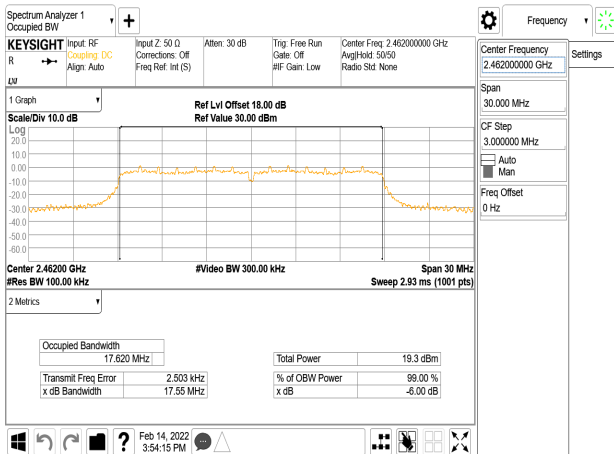
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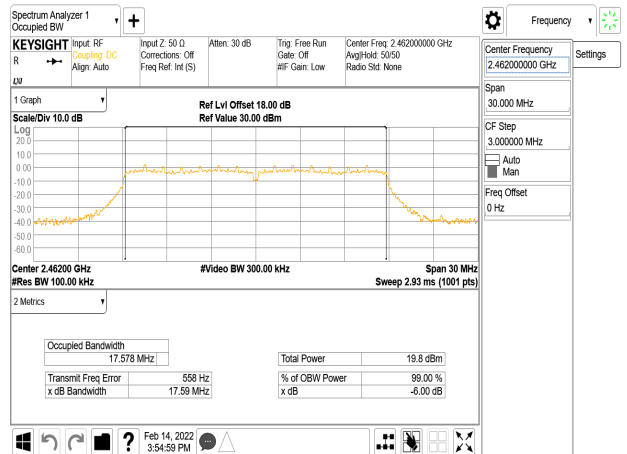
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802.11n_20MHz_Chain0_2462MHz



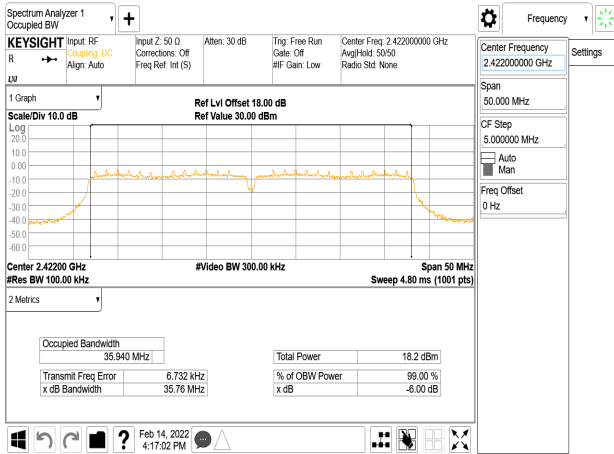
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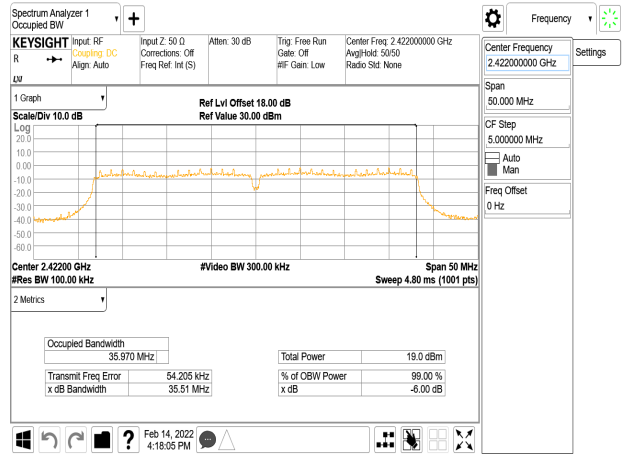
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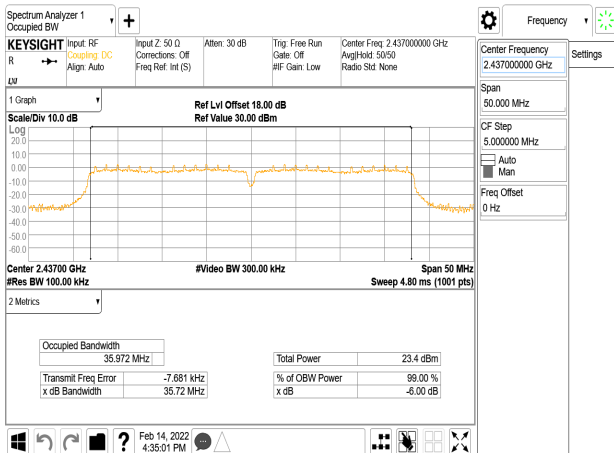
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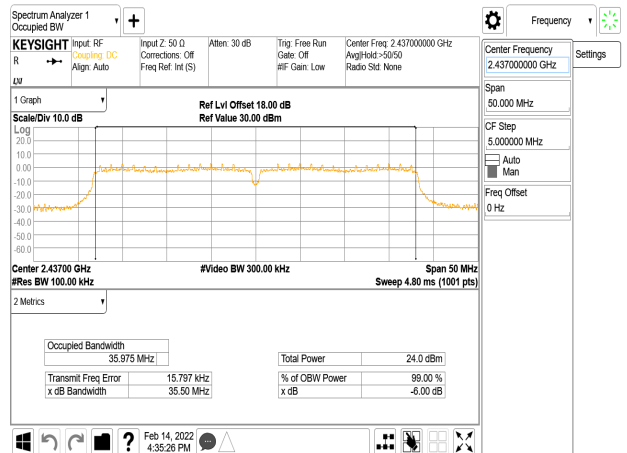
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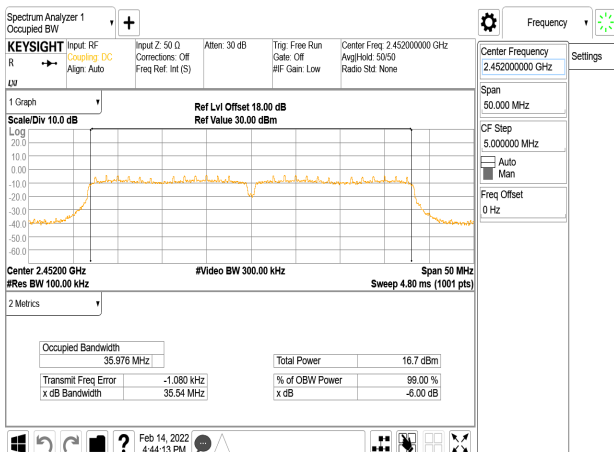
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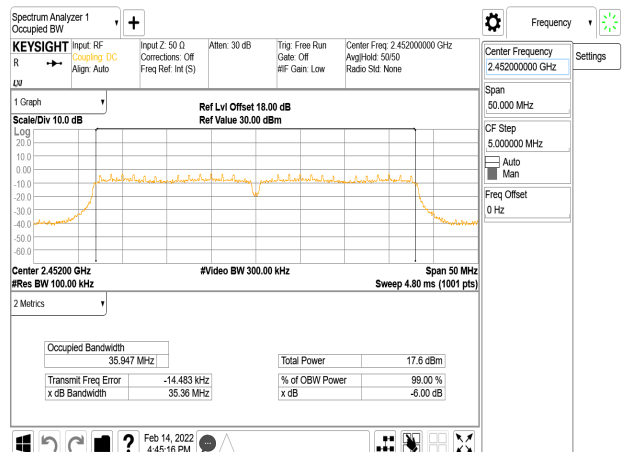
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802.11n_40MHz_Chain0_2452MHz



802.11n_40MHz_Chain1_2452MHz

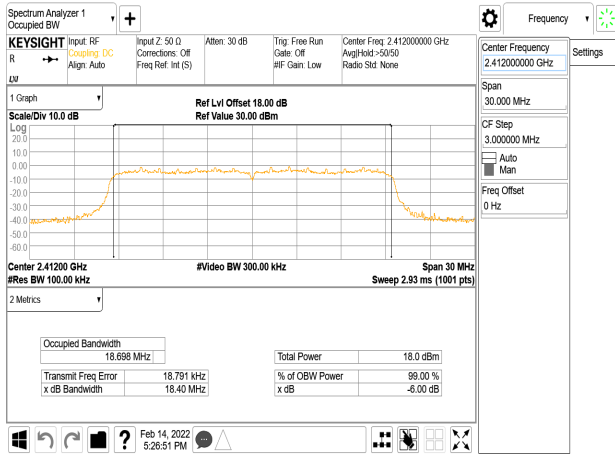


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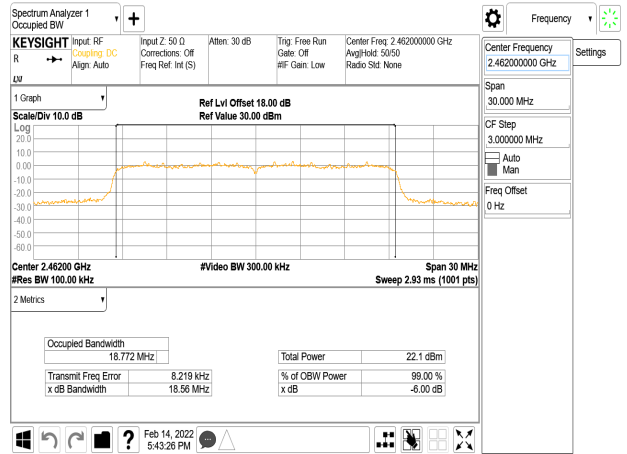
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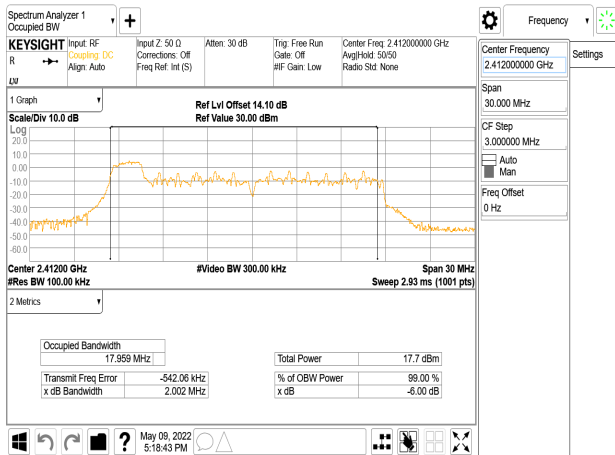
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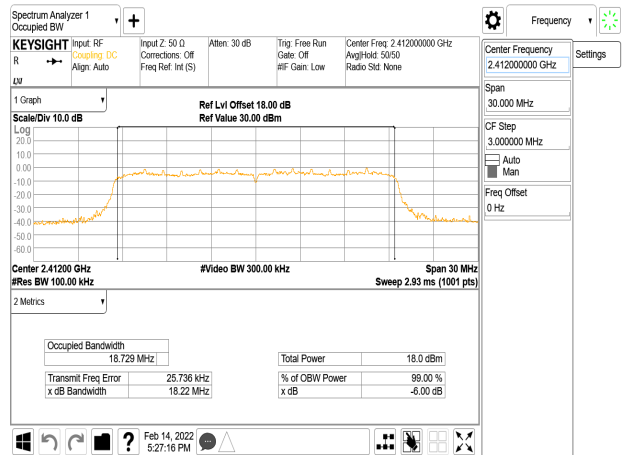
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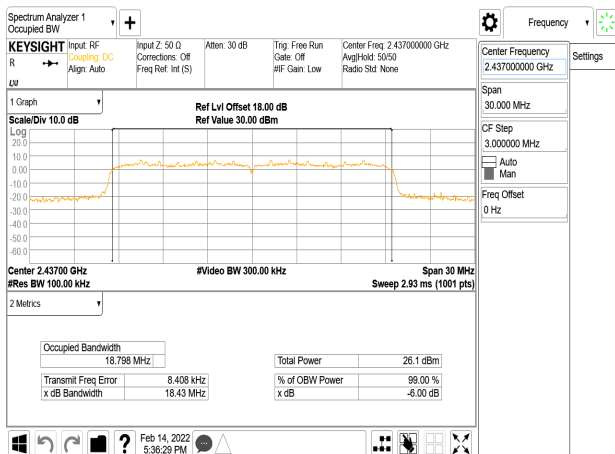
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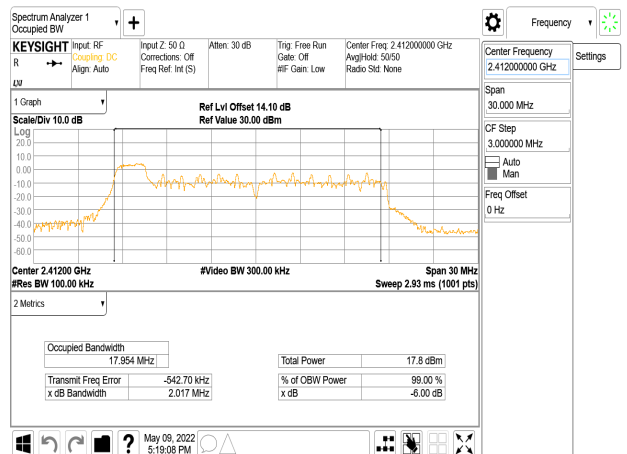
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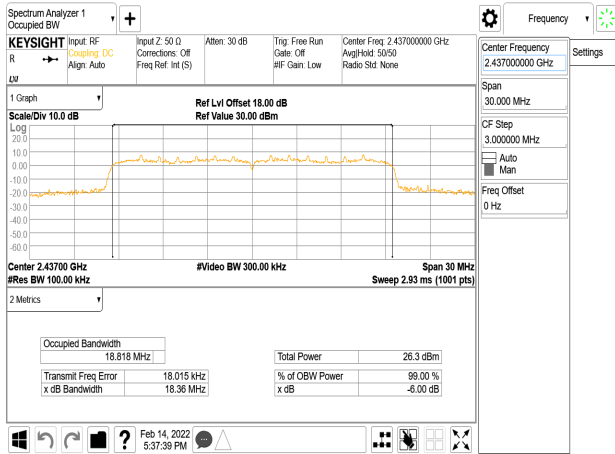


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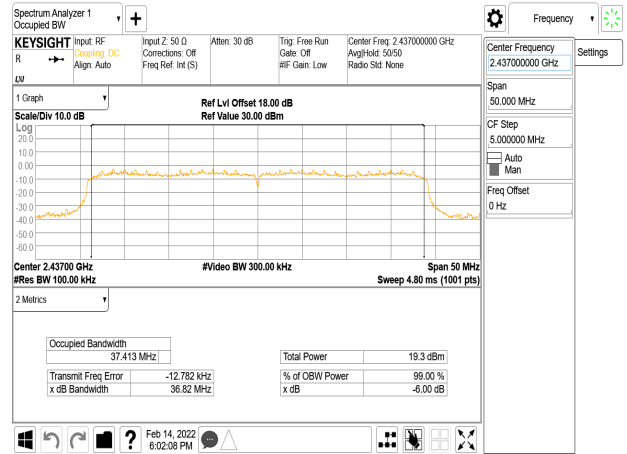
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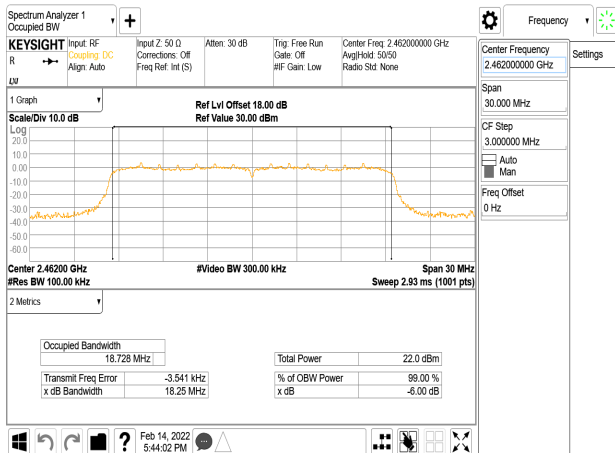
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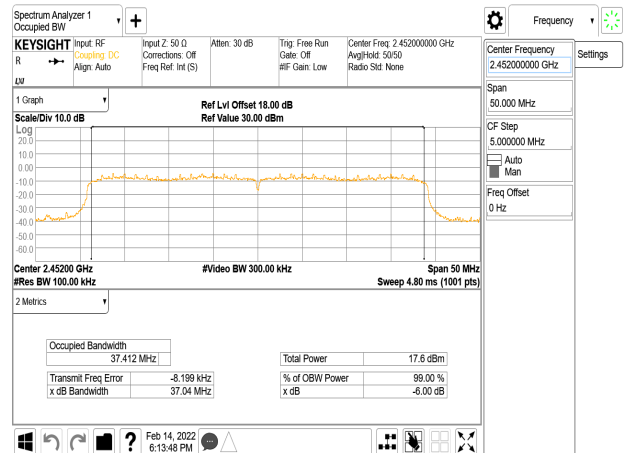
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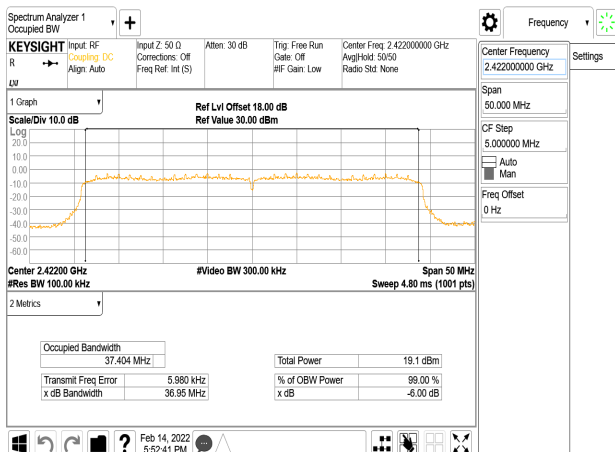
802.11ax_20MHz_Chain1_2462MHz



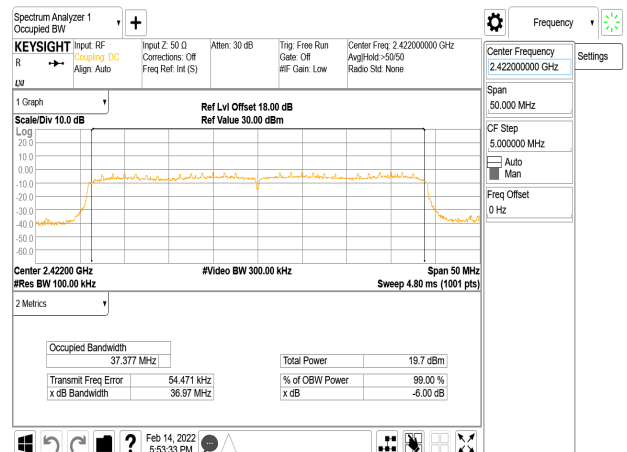
802.11ax_40MHz_Chain0_2452MHz



802.11ax_40MHz_Chain0_2422MHz



802.11ax_40MHz_Chain1_2422MHz

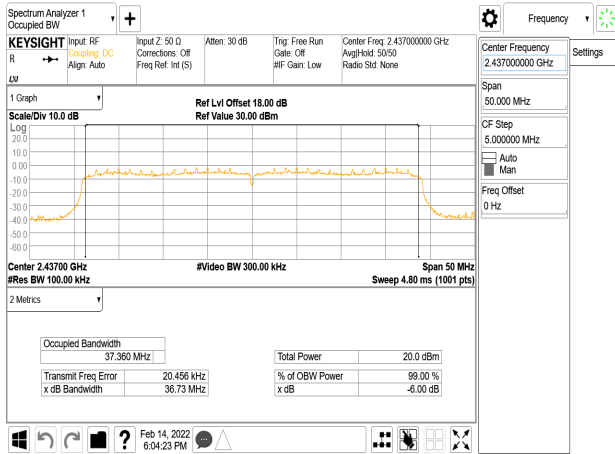


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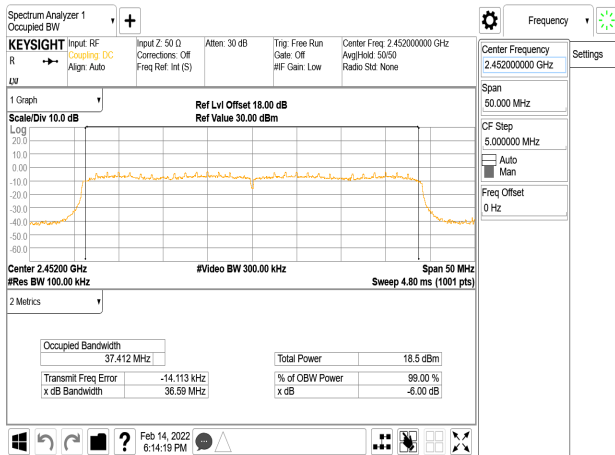
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802.11ax_40MHz_Chain1_2437MHz



802.11ax_40MHz_Chain1_2452MHz



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9.5 99% Bandwidth

802.11b Ch0

| Freq. (MHz) | 99% BW (MHz) |
|-------------|--------------|
| 2412 | 13.924 |
| 2437 | 13.606 |
| 2462 | 13.266 |

802.11b Ch1

| Freq. (MHz) | 99% BW (MHz) |
|-------------|--------------|
| 2412 | 13.963 |
| 2437 | 14.069 |
| 2462 | 13.886 |

802.11g Ch0

| Freq. (MHz) | 99% BW (MHz) |
|-------------|--------------|
| 2412 | 16.745 |
| 2437 | 17.042 |
| 2462 | 16.822 |

802.11g Ch1

| Freq. (MHz) | 99% BW (MHz) |
|-------------|--------------|
| 2412 | 16.664 |
| 2437 | 17.022 |
| 2462 | 16.651 |

802.11n_HT20M Ch0

| Freq. (MHz) | 99% BW (MHz) |
|-------------|--------------|
| 2412 | 17.697 |
| 2437 | 17.911 |
| 2462 | 17.767 |

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802.11n_HT20M Ch1

| Freq. (MHz) | 99% BW (MHz) |
|----------------|-----------------|
| 2412 | 17.66 |
| 2437 | 17.866 |
| 2462 | 17.665 |

802.11n_HT40M Ch0

| Freq. (MHz) | 99% BW (MHz) |
|----------------|-----------------|
| 2422 | 36.223 |
| 2437 | 36.261 |
| 2452 | 36.268 |

802.11n_HT40M Ch1

| Freq. (MHz) | 99% BW (MHz) |
|----------------|-----------------|
| 2422 | 36.118 |
| 2437 | 36.163 |
| 2452 | 36.157 |

802.11ax_HE20M Ch0

| Freq. (MHz) | RU Config | 99% BW (MHz) |
|----------------|--------------|-----------------|
| 2412 | full | 18.772 |
| 2412 | 26/0 | 18.152 |
| 2437 | full | 18.828 |
| 2462 | full | 18.804 |

802.11ax_HE20M Ch1

| Freq. (MHz) | RU Config | 99% BW (MHz) |
|----------------|--------------|-----------------|
| 2412 | full | 18.76 |
| 2412 | 26/0 | 18.174 |
| 2437 | full | 18.882 |
| 2462 | full | 18.778 |

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802.11ax_HE40M Ch0

| Freq. (MHz) | RU Config | 99% BW (MHz) |
|-------------|-----------|---------------|
| 2422 | full | 37.505 |
| 2437 | full | 37.517 |
| 2452 | full | 37.536 |

802.11ax_HE40M Ch1

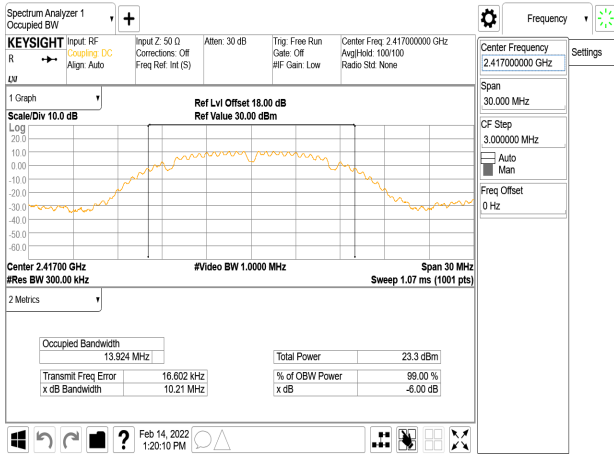
| Freq. (MHz) | RU Config | 99% BW (MHz) |
|-------------|-----------|--------------|
| 2422 | full | 37.48 |
| 2437 | full | 37.487 |
| 2452 | full | 37.49 |

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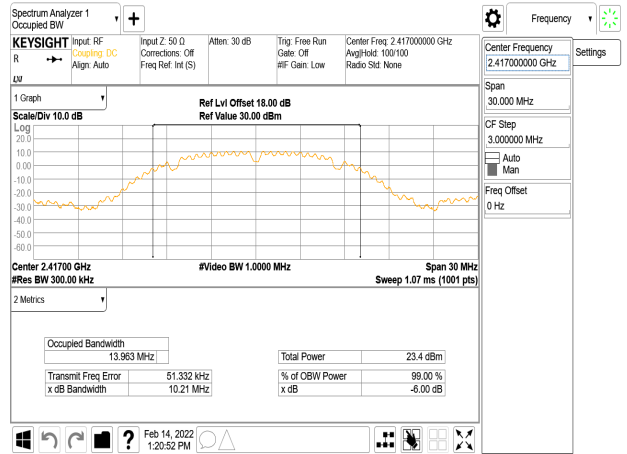
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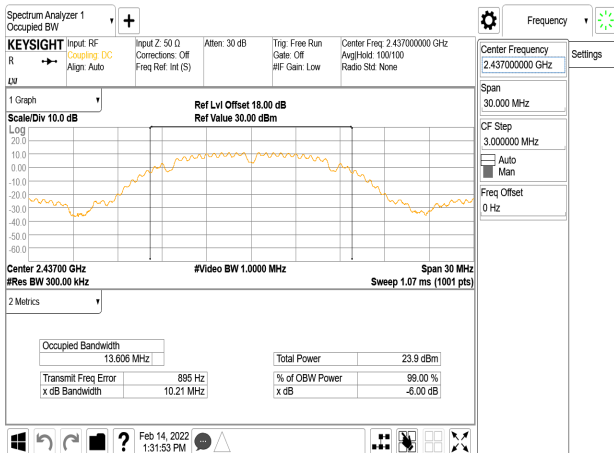
802.11b_20MHz_Chain0_2412MHz



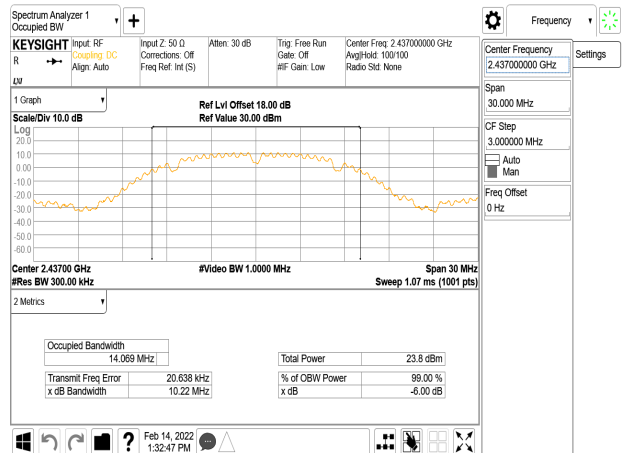
802.11b_20MHz_Chain1_2412MHz



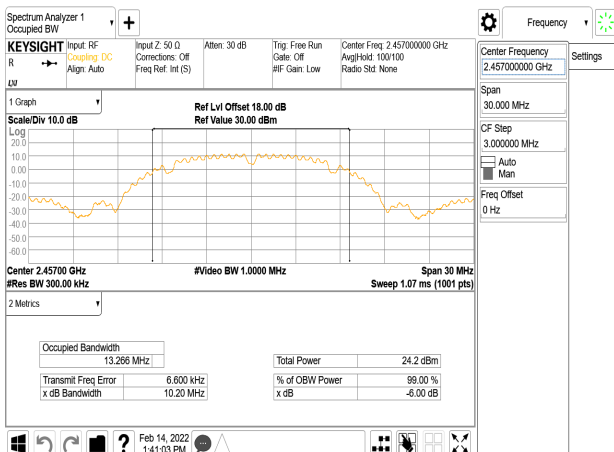
802.11b_20MHz_Chain0_2437MHz



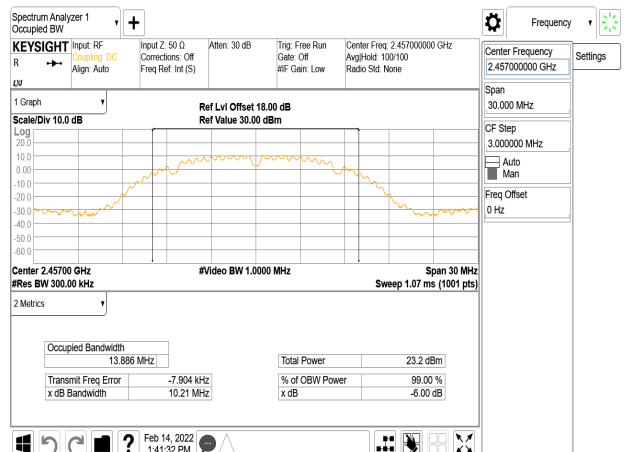
802.11b_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11b_20MHz_Chain1_2462MHz

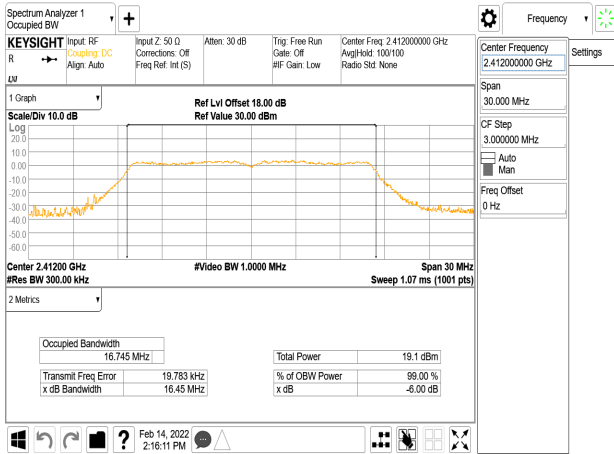


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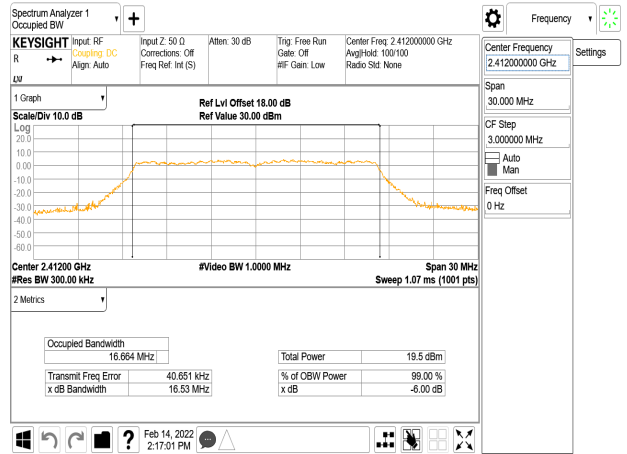
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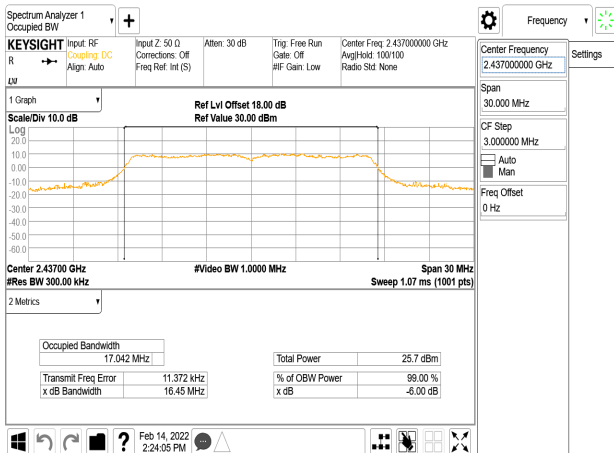
802.11g_20MHz_Chain0_2412MHz



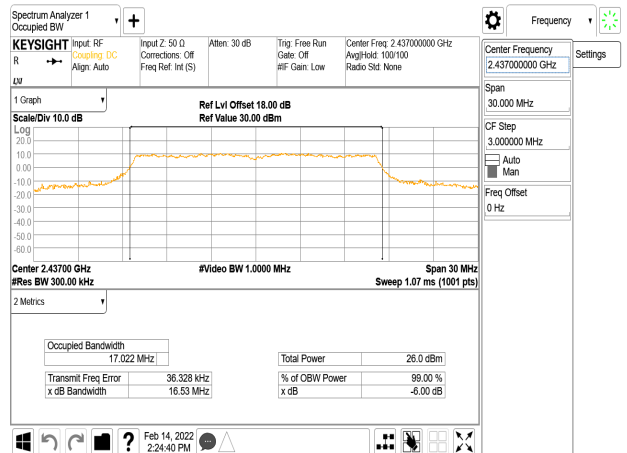
802.11g_20MHz_Chain1_2412MHz



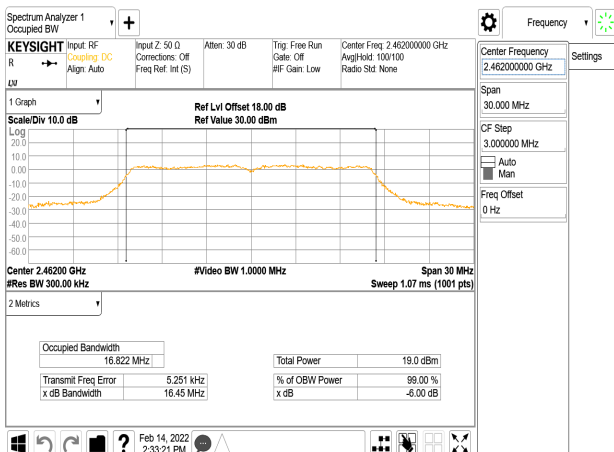
802.11g_20MHz_Chain0_2437MHz



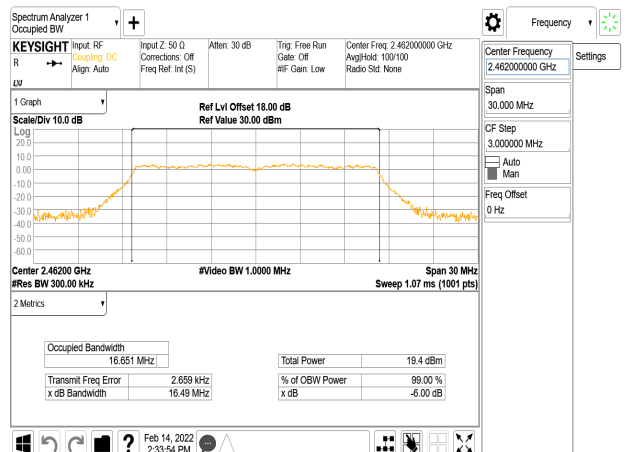
802.11g_20MHz_Chain1_2437MHz



802.11g_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain1_2462MHz



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